

Prolegomena To Any Future Metaphysics Which Can Arise As Science

By Immanuel Kant
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Introduction

- 1.1 These Prolegomena are not designed for the use of pupils, but rather of future teachers, and even these should not expect that they will be serviceable for the systematic exposition of a ready-made science, but merely for the discovery of the science itself.
- 2.1 There are scholarly men, for whom the history of philosophy (both ancient and modern) is philosophy itself; and it is not for them that these present Prolegomena are written.
- 2.2 They must wait till those who endeavor to dip into the fountain of reason itself have completed their work. Then it will be the historian's turn to inform the world of what has been done.
- 2.3 Unfortunately, nothing can be said, which in their opinion has not been said already, and this same prophecy will certainly apply to all future time; for since human reason has speculated for many centuries about innumerable objects in various ways, we can hardly expect that there will be no analogies for every new Idea among the old sayings of ages past.
- 3.1 My objective here is to persuade all those who think metaphysics worth studying, that it is absolutely necessary to pause for a moment and, neglecting all that has already been done, to first propose this preliminary question: "Is something like metaphysics even possible in the first place?"
- 4.1 If it is a science, how is it that it cannot, like other sciences, obtain universal and permanent acclamation?
- 4.2 If it is not a science, how can it continuously maintain the pretensions of a science, and keep the human mind in suspense with irrepressible hopes which are never fulfilled?
- 4.3 And so whether we demonstrate our knowledge or our ignorance in this field, we must come once and for all to something certain regarding the na-

ture of this alleged science, for it cannot possibly remain on its present footing.

- 4.4 It seems almost ridiculous that while every other science is continually advancing, here with metaphysics, which pretends to be Wisdom incarnate, and for whose oracle every one inquires, we should constantly move around in circles without advancing a single step.
- 4.5 And so now, since its followers have melted away, we do not find anyone who is confident of an ability to shine in other sciences venturing their reputation here, where everybody, however ignorant in other matters, may deliver a final verdict, for in this domain there is as yet no standard weight and measure to distinguish sound knowledge from prattle.
- 5.1 After all it is nothing extraordinary in the elaboration of a science, when people begin to wonder how far it has advanced, that the question should at last occur, whether and how such a science be possible?
- 5.2 Human reason so delights in constructions, that it has several times built up a tower, and then razed it to examine the nature of the foundation.
- 5.3 It is never too late to become wise. But if the change comes late, there is always more difficulty in starting a reform.
- 6.1 The question whether a science be possible, presupposes a doubt as to its actuality.
- 6.2 But such a doubt offends those, whose total possessions consist of this supposed jewel. Hence anyone who raises a doubt must expect opposition from all sides.
- 6.3 Some, in the proud consciousness of their possessions, which are ancient and, for that reason, considered legitimate, will take their metaphysical compendia in their hands, and look down on the doubter with contempt. Others, who never see anything except it be identical with what they have seen before, will not understand such a person, and everything will remain for a time as if nothing had happened to excite the concern, or the hope, for an impending change.

7.1 Nevertheless, I venture to predict that the independent readers of these Prolegomena will not only doubt their previous science, but will ultimately be fully persuaded that it cannot exist unless the demands here stated, on which its possibility depends, be satisfied; and, as this has never been done, that there is, as yet, no such thing as metaphysics.

7.2 But as it can never cease to be in demand,* since the interests of universal human reason are intimately interwoven with it, that reader must confess that a radical reform, or rather a new birth, of the science according to an original plan, is unavoidable, regardless of how much people may struggle against it for a while.

* Kant's annotation.

1.1 Rusticus expectat, dum defluat amnis: at ille
Labitur et labetur in omne volubilis aevum.¹ Hortat.

8.1 Since the essays of Locke and Leibniz, or even since the origin of metaphysics to the extent we know its history, nothing has happened which was more decisive to its fate than the attack made upon it by David Hume.

8.2 He threw no light on this species of knowledge, but he certainly struck a spark from which light might have been obtained, had it encountered some receptive tinder and had its smoldering fire been carefully nursed and developed.

9.1 Hume started from a single but important concept in metaphysics, i.e., that of cause and effect (including its derivatives: force and action, etc.). He challenged reason, which pretends to have given birth to this Idea from herself, to answer him by what right she thinks anything to be so constituted, that if that thing be posited, something else also must necessarily be posited; for this is the meaning of the concept of cause.

¹ A rustic fellow waiteth on the shore
For the river to flow away, But the river flows, and flows
on as before, And it flows forever and aye.

- 9.2 He demonstrated beyond question that it was perfectly impossible for reason to think a connection involving necessity a priori and by means of concepts. We cannot at all see why, in consequence of the existence of one thing, another must exist necessarily, or how the concept of such a connection can arise a priori.
- 9.3 Hence he inferred that reason was altogether deluded with reference to this concept. She had erroneously considered it as one of her children, whereas actually it was nothing but a bastard of imagination, impregnated by experience, which subsumed certain representations under the Law of Association, and she mistook the subjective necessity of habit for an objective necessity arising from insight.
- 9.4 As a result he inferred that reason had no power to think such combinations even generally, because her concepts would then be purely fictitious, and all her pretended a priori recognitions nothing but common experiences marked with a false stamp. In a word: there is not, and cannot be, any such thing as metaphysics at all. *

* Kant's annotation.

- 1.1 Nevertheless Hume called this very destructive science metaphysics and attached to it great value. "Metaphysics and morals" he declares "are the most important branches of science; mathematics and physics are not nearly as important" But the acute man merely regarded the negative use arising from the moderation of extravagant claims of speculative reason, and the complete settlement of the many endless and troublesome controversies that mislead mankind. He overlooked the positive injury which ensues if reason be deprived of its most important prospects, which can alone supply to the will the highest aim for all its endeavors.
- 10.1 However hasty and mistaken Hume's conclusion may appear, it was at least founded upon investigation, and this investigation deserved the concentrated attention of the brighter spirits of his day as well as their determined efforts to discover, if possible, a happier solution of the problem in the sense proposed by him; all of which would have speedily resulted in a complete reform of the science.
- 11.1 But Hume suffered the usual misfortune of metaphysicians, i.e., not being understood.

- 11.2 It is really quite painful to see how utterly his opponents, Reid, Oswald, Beattie, and finally Priestley, missed the point of the problem. For while they were ever taking for granted that which he doubted, and demonstrating with zeal and often with impudence that which he never thought of doubting, they so misconstrued his valuable suggestion that everything remained in its old condition, as though nothing had happened.
- 11.3 The question was not whether the concept of cause was right, useful, and even indispensable for our knowledge of nature, for this Hume had never doubted. The question rather was whether that concept could be thought by reason a priori, and consequently whether it possessed an inner truth, independent of all experience, implying a wider application than merely to the objects of experience. This was Hume's problem.
- 11.4 It was a question concerning the origin, and not the indispensable need, of the concept. Had the former been decided, the conditions of the use and the sphere of its valid application would have been determined as a matter of course.
- 12.1 But to satisfy the conditions of the problem, the opponents of this great thinker should have penetrated very deeply into the nature of reason, to the extent it is concerned with pure thinking--a task which did not suit them.
- 12.2 They found a more convenient method of being defiant without any insight, i.e., the appeal to common sense.
- 12.3 It is indeed a great gift of heaven to possess right or (as they now call it) plain common sense.
- 12.4 But this common sense must be shown to be practical by well-considered and reasonable thoughts and words, and not by appealing to it as an oracle, in those cases where no rational justification can be advanced.
- 12.5 To appeal to common sense, when insight and science fail, and no sooner--this is one of the subtle discoveries of modern times, by means of which the most superficial ranter can safely enter the lists with the most thorough thinker, and hold his own.

- 12.6 But as long as a particle of insight remains, no one would think of having recourse to this subterfuge.
- 12.7 For what is it but an appeal to the opinion of the multitude, of whose applause the philosopher is ashamed, while the popular charlatan glories and confides in it?
- 12.8 I should think that Hume might fairly have laid as much claim to common sense as Beattie and, in addition, to a critical reason (such as the latter did not possess) which keeps common sense in check and prevents it from speculating or, if speculations are under discussion, restrains the desire to decide in those cases where it cannot satisfy itself concerning its own arguments. By this means alone can common sense remain sound.
- 12.9 Chisels and hammers may suffice to work a piece of wood, but for steel-engraving we require an engraver's needle.
- 12.10 Thus common and speculative understanding are each serviceable in their own way, the former in judgments which apply immediately to experience, the latter when we judge universally from mere concepts as in metaphysics, where sound common sense, so called in spite of the inapplicability of the word, has no right to judge at all.
- 13.1 I openly confess that the suggestion of David Hume was the very thing which first interrupted my dogmatic slumber many years ago, and gave my investigations in the field of speculative philosophy an entirely new direction.
- 13.2 I was far from following him in the conclusions at which he arrived by regarding, not the whole of his problem, but only a part, which by itself can give us no information.
- 13.3 If we start from a well-founded, but undeveloped, thought which another has bequeathed to us, we may well hope by continued reflection to advance farther than the acute man, to whom we owe the first spark of light.
- 14.1 Therefore I first tried whether Hume's objection could not be put into a general form, and soon found that the concept of the connection of cause and

effect was by no means the only Idea by which the understanding thinks the connection of things a priori, but rather that metaphysics consists altogether of such connections.

- 14.2 I sought to ascertain their number, and when I had satisfactorily succeeded in this by starting from a single principle, I proceeded to the deduction of these concepts which, I was now certain, were not deduced from experience, as Hume had undertaken to do, but which sprang from the pure understanding.
- 14.3 This deduction (which seemed impossible to my acute predecessor, and which had never even occurred to any one else, though no one had ever hesitated to use the concepts without investigating the basis of their objective validity) was the most difficult task ever undertaken in the service of metaphysics. And the very worst was that metaphysics, such as it then existed, could not assist me in the least, because this deduction alone can render metaphysics possible.
- 14.4 But as soon as I had succeeded in solving Hume's problem not merely in a particular case, but with respect to the whole faculty of pure reason, I could proceed safely, though slowly, to determine completely and from general principles the whole sphere of pure reason in its circumference as well as in its contents. This was required for metaphysics in order to construct its system according to a reliable method.
- 15.1 But I am concerned that the execution of Hume's problem in its widest extent (i.e., my *Critique of Pure Reason*) will fare as the problem itself fared, when first proposed.
- 15.2 It will be misjudged because it is misunderstood, and misunderstood because people choose to skim through the book and not to think it through--a disagreeable task, because the work is dry, obscure, opposed to all ordinary notions, and moreover verbose.
- 15.3 I confess, however, that I did not expect to hear complaints from philosophers concerning a want of popularity, entertainment, and facility, when the existence of a highly prized and indispensable recognition is at stake, which cannot be established otherwise than by the strictest rules of methodic precision. Popularity may follow, but is inadmissible at the beginning.

- 15.4 Yet as regards a certain obscurity, arising partly from the diffuseness of the plan, owing to which, the principal points of the investigation are easily overlooked, the complaint is just, and I intend to remove it by the present Prolegomena.
- 16.1 The first-mentioned work, which discusses the pure faculty of reason in its whole compass and bounds, will remain the foundation, to which the Prolegomena, as a preliminary exercise, refer; for our critique must first be established as a complete and perfected science before we can think of letting metaphysics appear on the scene, or even have the most distant hope of attaining it.
- 17.1 We have been long accustomed to seeing antiquated knowledge produced as new by taking it out of its former context, and reducing it to a system in a new suit of any fancy pattern under new titles. Most readers will set out by expecting nothing else from the *Critique*.
- 17.2 But these Prolegomena may persuade him that it is a perfectly new science, of which no one has ever even thought, the very Idea of which was unknown, and for which nothing hitherto accomplished can be of the smallest use, except it be the suggestion of Hume's doubts. Yet even he did not suspect such a formal science, but ran his ship ashore for safety's sake, landing on skepticism, and there to let it lie and rot. In contrast my object is to give it a pilot who, by means of safe astronomical principles drawn from a knowledge of the globe and provided with a complete chart and compass, may steer the ship safely wherever he might desire.
- 18.1 If in a new science, which is wholly isolated and unique in its kind, we started with the prejudice that we can judge of things by means of our previously acquired knowledge, which is precisely what first has to be called into question, we would only fancy to see everywhere what we had already known, the expressions having a similar sound, only that all would appear utterly metamorphosed, senseless and unintelligible, because we would have as a foundation our own notions, made by long habit into a second nature, instead of those of the author's.

- 18.2 But the verbosity of the work, to the extent it depends on the subject, and not the exposition, along with its consequent unavoidable dryness and its scholastic precision are qualities which can only benefit the science, though they may discredit the book.
- 19.1 Few writers are gifted with the subtlety and, at the same time, the grace of David Hume, or with the depth as well as the elegance of Moses Mendelssohn. Yet I flatter myself I might have made my own exposition popular had my object been merely to sketch out a plan and leave its completion to others instead of having my heart in the welfare of the science, to which I had devoted myself so long. In truth, it required no little constancy and even self-denial to postpone the sweets of an immediate success to the prospect of a slower, but more lasting, acclaim.
- 20.1 Making plans is often the occupation of an opulent and boastful mind, which thus obtains the reputation of a creative genius, by demanding what it cannot itself supply; by censuring, what it cannot improve; and by proposing, what it knows not where to find.
- 20.2 And yet something more should belong to a sound plan of a general critique of pure reason than mere conjectures, if this plan is to be other than the usual declamations of pious aspirations. But pure reason is a sphere so separate and self-contained, that we cannot touch one part without affecting all the rest. We can, therefore, do nothing without first determining the position of each part, and its relation to the rest; for, as our judgment cannot be corrected by anything apart from this sphere, the validity and use of every part depends upon the relation in which it stands to all the rest within the domain of reason. And so in the structure of an organized body, the end of each member can only be deduced from the full conception of the whole.
- 20.3 It may then be said of such a critique that it is never trustworthy except it be perfectly complete, down to the smallest elements of pure reason. In the sphere of this faculty you can determine either everything or nothing.
- 21.1 But although a mere sketch, preceding the *Critique of Pure Reason*, would be unintelligible, unreliable, and useless, it is all the more useful as a sequel.

- 21.2 For in this way we are able to grasp the whole, to examine in detail the chief points of importance in the science, and to improve in many respects our exposition, as compared with the first execution of the work.
- 22.1 After the completion of the work, I offer here such a plan which is sketched out after an analytical method, while the work itself had to be executed in the synthetical style, in order that the science may present all its articulations, as the structure of a peculiar cognitive faculty, in their natural combination.
- 22.2 But should any reader find this plan, which I publish as the Prolegomena to any future Metaphysics, still obscure, let him consider that not every one is bound to study Metaphysics, that many minds will succeed very well, in the exact and even in deep sciences which are more closely allied to perspective [*Anschauung*], while they cannot succeed in investigations dealing exclusively with abstract concepts. In such cases men should apply their talents to other subjects. But he who undertakes to judge, or still more, to construct a system of Metaphysics, must satisfy the demands here made, either by adopting my solution, or by thoroughly refuting it and substituting another. To evade it is impossible. In conclusion, let it be remembered that this much-abused obscurity (frequently serving as a mere pretext under which people hide their own indolence or dullness) has its uses, since all who in other sciences honor a judicious silence, speak authoritatively in metaphysics and make bold decisions, because their ignorance is not here contrasted with the knowledge of others. Yet it does contrast with sound critical principles, which we may therefore commend with:

*Ignavum, fucos, pecus a praesepibus arcent.*² Virgil

² "They defend the hives against drones, those indolent creatures."--Georgics IV 168.

Preamble Concerning The Peculiarities Of All Metaphysical Recognitions

1. The Sources Of Metaphysics

- 1.1 If it becomes desirable to formulate any recognition as science, it will be necessary first to determine accurately those peculiar features which no other science has in common with it, and which constitute its characteristics. Otherwise the boundaries of all sciences become confused, and none of them can be treated thoroughly according to its nature.

- 2.1 The characteristics of a science may consist of a simple difference of object, or of the sources of recognition, or of the kind of recognition, or perhaps of all three together. On this, therefore, depends the Idea of a possible science and its territory.

- 3.1 First, as concerns the sources of metaphysical recognition, its very concept implies that they cannot be empirical.
- 3.2 Its principles (including not only its maxims but its basic notions) must never be derived from experience. It must not be physical but metaphysical knowledge, i.e., knowledge lying beyond experience.
- 3.3 For its foundation, therefore, it can have neither external experience, which is the source of physics proper, nor internal experience, which is the basis of empirical psychology.
- 3.4 It is therefore a priori knowledge, coming from pure understanding and pure reason.

- ???
- 4.1 But to this extent metaphysics would not be distinguishable from pure mathematics. Hence it must be called pure philosophical recognition; and for the meaning of this term I refer the reader to the *Critique of the Pure Reason* (II. "Method of Transcendentalism," Chap. I., Sect. 1), where the distinction between these two employments of the reason is sufficiently explained.

4.2 Enough concerning the sources of metaphysical recognition.

2. The Kind Of Recognition Which Can Alone Be Called Metaphysical

a) The Distinction Between Analytical And Synthetical Judgments In General.

5.1 The peculiarity of its sources demands that a metaphysical recognition must consist of nothing but a priori judgments.

5.2 But whatever be their origin or their logical form, there is a distinction in judgments as to their content, according to which they are either merely explicative, adding nothing to the content of the recognition, or expansive, increasing the given recognition. The former may be called analytical, the latter synthetical, judgments.

6.1 Analytical judgments express nothing in the predicate but what has been already actually thought in the concept of the subject, though not so distinctly or with the same (full) consciousness.

6.2 When I say: "all bodies are extended" I have not amplified my concept of body in the least, but have only analyzed it, as extension was really thought to belong to that concept before the judgment was made, though it was not expressed. This judgment, therefore, is analytical.

6.3 On the contrary, this judgment: "some bodies have weight" contains in its predicate something not actually thought in the general concept of the body. It amplifies my knowledge by adding something to my concept, and accordingly must be called synthetical.

b) The Common Principle Of All Analytical Judgments Is The Law Of Contradiction.

7.1 All analytical judgments depend wholly on the law of contradiction, and are in their nature a priori recognitions, whether the concepts that supply them with matter be empirical or not.

7.2 For the predicate of an affirmative analytical judgment is already contained in the concept of the subject, of which it cannot be denied without contradic-

tion. In the same way its opposite is necessarily denied of the subject in an analytical, but negative, judgment by the same law of contradiction.

7.3 Such is the nature of the judgments: all bodies are extended, and no bodies are unextended (i. e., simple).

8.1 For this very reason all analytical judgments are a priori even when the concepts are empirical, as, for example, gold is a yellow metal; for to know this I require no experience beyond my concept of gold as a yellow metal. It is, in fact, the very concept itself, and I need only analyze it, without seeking elsewhere apart from it.

c) Synthetical Judgments Require a Different Principle from the Law of Contradiction.

9.1 There are synthetical a posteriori judgments of empirical origin; but there are also others which are proved to be certain a priori, and which spring from pure understanding and reason.

9.2 Yet they both agree in this, that they cannot possibly spring from the principle of analysis, i.e., the law of contradiction, alone; they require a quite different principle; though, from whatever they may be deduced, they must be subject to the law of contradiction, which must never be violated, even though everything cannot be deduced from it.

9.3 I shall first classify synthetical judgments.

10.1 1. *Judgments of Experience* are always synthetical.

10.2 For it would be absurd to base an analytical judgment on experience, as our concept suffices for the purpose without requiring any testimony from experience.

10.3 That a body is extended is a judgment established a priori, and not an empirical judgment.

10.4 For before appealing to experience, we already have all the conditions of the judgment in the concept, from which we have but to elicit the predicate ac-

according to the law of contradiction, and in that way to become conscious of the necessity of the judgment, which experience could not teach us at all.

- 11.1 2. *Mathematical Judgments* are all synthetic.
- 11.2 Before now this fact seems to have altogether escaped the notice of those who have analyzed human reason. It even seems directly opposed to all their conjectures, though incontestably certain, and most important in its consequences.
- 11.3 For as it was found that the conclusions of mathematicians all proceed according to the law of contradiction (as is demanded by all apodictic certainty), men persuaded themselves that the fundamental principles were known from the same law. This was a great mistake, for a synthetic proposition can indeed be comprehended according to the law of contradiction, but only by presupposing another synthetic proposition from which it follows, but never in itself.
- 12.1 First of all, we must note that all proper mathematical judgments are a priori, and not empirical, because they carry with them necessity, which cannot be obtained from experience.
- 12.2 But if this be not conceded to me, well and good; I shall confine my assertion to pure mathematics, the very notion of which implies that it contains pure a priori, and not empirical, recognitions.
- 13.1 It might at first be thought that the proposition $7 + 5 = 12$ is a mere analytical judgment, following from the concept of the sum of seven and five, according to the law of contradiction.
- 13.2 But on closer examination it appears that the concept of the sum of 7+5 contains merely their union in a single number, without any thought as to what the particular number is that unites them.
- 13.3 The concept of twelve is by no means thought by merely thinking of the combination of seven and five; and analyze this possible sum in any way possible, we shall not discover twelve in that combination.

- 13.4 We must go beyond these concepts, by calling to our aid some perspective, i.e., either our five fingers, or five points (as Segner has it in his *Arithmetic*), and we must successively add the units of the five, given in some perspective, to the concept (count) of seven.
- 13.5 Hence our concept is really amplified by the proposition $7 + 5 = 12$, and we add to the first another one, which not thought in it. Arithmetical judgments are therefore synthetical, and this is all the more plain as we take larger numbers; for in such cases it is clear that, however closely we analyze our concepts without calling some perspective to our aid, we can never find the sum by such mere dissection.
- 14.1 Just as little is any principle of geometry analytical.
- 14.2 That a straight line is the shortest path between two points, is a synthetical proposition.
- 14.3 For my concept of straight contains nothing of quantity, but only a quality. The attribute of shortness is, therefore, altogether additional and cannot be obtained by any analysis of the concept.
- 14.4 Here, too, perspective must come to aid us. It alone makes the synthesis possible.
- 15.1 Some other principles, assumed by geometers, are indeed actually analytical, and depend on the law of contradiction. But as identical propositions they only serve as a method of concatenation, and not as principles, e. g., $a = a$, the whole is equal to itself; or $a + b > a$, the whole is greater than its part.
- 15.2 And yet even these, though they are recognized as valid from mere concepts, are only admitted in mathematics because they can be represented in some perspective.
- 15.3 What usually makes us believe that the predicate of such apodictic judgments is already contained in our concept, and that the judgment is therefore analytical, is the duplicity of the expression.

- 15.4 This expression requests us to think a certain predicate as necessarily implied in the thought of a given concept, which necessity attaches to the concept.
- 15.5 But the question is not what we are requested to join in thought to the given concept, but what we actually think together with and in it, though obscurely; and so it appears that the predicate belongs to these concepts necessarily indeed, yet not directly, but indirectly via an added perspective.

3. Remark on the General Division of Judgments into Analytical and Synthetical

- 16.1 With respect to the critique of human understanding, this division is indispensable and therefore deserves to be called classical, though otherwise it is of little use.
- 16.2 And this is the reason why dogmatic philosophers, who always seek the sources of metaphysical judgments in metaphysics itself, and not apart from it in the pure laws of reason generally, altogether neglected this apparently obvious distinction. Thus the celebrated Wolf and his acute follower, Baumgarten, came to seek the proof of the principle of sufficient reason, which is clearly synthetical, in the principle of contradiction.
- 16.3 In Locke's Essay, however, I find an indication of my division.
- 16.4 For in the fourth book (chap. iii. Sect. 9, seq.), having discussed the various connections of representations in judgments, and their sources, one of which he makes "identity and contradiction" (analytical judgments), and another the coexistence of representations in a subject, he confesses (Sect. 10) that our a priori knowledge of the latter is very narrow, and almost nothing.
- 16.5 But in his remarks on this species of recognition, there is so little of what is definite and reduced to rules, that we cannot wonder if no one, not even Hume, was led to make investigations concerning this sort of judgments.
- 16.6 For such general and yet definite principles are not easily learned from other men, who have had them obscurely in their minds.
- 16.7 We must come upon them first by our own reflection, and then we find them elsewhere, where we could not possibly have found them previously, be-

cause the authors themselves did not know that such an Idea lay at the basis of their perspectives.

- 16.8 Men who never think independently have nevertheless the acuteness to discover everything, once it has been shown to them, in what was said much earlier, though no one ever saw it there before.

The General Question of the Prolegomena: Is Metaphysics even Possible?

4

- 17.1 If a metaphysics, which could maintain its place as a science, were really in existence, could we say: here is metaphysics, learn it, and it will convince you irresistibly and irrevocably of its truth? This question would be useless, and there would only remain that other question (which would be more a test of our acuteness than a proof of the existence of the thing itself), "How is such a science possible, and how does reason come to attain it?"
- 17.2 But human reason has not been so fortunate in this case.
- 17.3 There is no single book which you can point to as you do to Euclid, and say: This is Metaphysics; here you may find the noblest objects of this science, the knowledge of a highest Being, and of a future existence, proved from principles of pure reason.
- 17.4 We can indeed be shown many judgments, demonstrably certain, and never questioned; but these are all analytical, and concern the materials and the scaffolding for Metaphysics rather than the extension of knowledge, which is our proper object in studying it (§ 2.).
- 17.5 Even supposing you produce synthetical judgments (such as the law of Sufficient Reason, which you have never proved, as you ought to, from pure reason a priori, though we gladly concede its truth), then, when they come to be employed for your principal object, you lapse into such doubtful assertions that in all ages one Metaphysics has contradicted another, either in its assertions, or its proofs, and thus has itself destroyed its own claim to lasting assent.

- 17.6 Nay, the very attempts to set up such a science are the main cause of the early appearance of skepticism, a mental attitude in which reason treats itself with such violence that it could never have arisen save from complete despair of ever satisfying our most important aspirations.
- 17.7 For long before men began to inquire into nature methodically, they consulted abstract reason, which had to some extent been exercised by means of ordinary experience; for reason is ever present, while laws of nature must usually be discovered with labor. So Metaphysics floated to the surface, like foam, which dissolved the moment it was scooped off. But then immediately there appeared a new supply on the surface, ever to be gathered up eagerly by some, while others, instead of seeking in the depths the cause of the appearance, thought they showed their wisdom by ridiculing the idle labor of their neighbors.
- 18.1 The essential and distinguishing feature of pure mathematical recognitions among all other a priori recognitions is that it cannot at all proceed from concepts, but only by means of the construction of concepts (see *Critique II.*, Method of Transcendentalism, Chap. I., sect. 1).
- 18.2 In its judgments, therefore, it must proceed beyond the concept to that which its corresponding perspective contains, and these judgments neither can, nor ought to, arise analytically by dissecting the concept, rather they are all synthetic.
- 19.1 I cannot refrain from pointing out the disadvantage resulting to philosophy from the neglect of this easy and apparently insignificant consideration.
- 19.2 Hume being prompted (a task worthy of a philosopher) to cast his eye over the whole field of a priori recognitions in which human understanding claims such mighty possessions, heedlessly severed from it a whole, and indeed its most valuable, province, i.e., pure mathematics; for he thought its nature, or, so to speak, the state-constitution of this empire, depended on totally different principles, namely on the law of contradiction alone; and although he did not divide judgments in this manner formally and universally as I have done here, what he said was equivalent to this: that mathematics contains only analytical, but metaphysics synthetic, a priori judgments.

- 19.3 In this, however, he was greatly mistaken, and the mistake had a decidedly injurious effect upon his whole conception.
- 19.4 Except for this, he would have extended his question concerning the origin of our synthetical judgments far beyond the metaphysical concept of Causality, and would have included in it the possibility of mathematics a priori also, for this latter he must have assumed to be equally synthetical.
- 19.5 And then he could not have based his metaphysical judgments on mere experience without subjecting the axioms of mathematics equally to experience, a thing which he was far too acute to do.
- 19.6 The good company, into which metaphysics would thus have been brought, would have saved it from the danger of a contemptuous ill-treatment, for the thrust intended for it must have reached mathematics, which was not and could not have been Hume's intention. Thus that acute man would have been led into considerations which would have been similar to those that now occupy us, but which would have gained beyond measure by his uniquely elegant style.
- 20.1 Metaphysical judgments, properly so called, are all synthetical.
- 20.2 We must distinguish judgments pertaining to metaphysics from metaphysical judgments properly so called.
- 20.3 Many of the former are analytical, but they only afford the means for metaphysical judgments, which are the whole end of the science, and which are always synthetical.
- 20.4 For if there be concepts pertaining to metaphysics (as, for example, that of substance), the judgments springing from the simple analysis of them also pertain to metaphysics, as, for example: substance is that which only exists as subject. And it is by means of several such analytical judgments what we seek to approach the definition of the concept.
- 20.5 But as the analysis of a pure concept of the understanding pertaining to metaphysics does not proceed any differently than the dissection of any other, even empirical, concepts, which do not pertain to metaphysics (such as: air is an elastic fluid, the elasticity of which is not destroyed by any

known degree of cold), it follows that the concept indeed, but not the analytical judgment, is properly metaphysical. This science has something peculiar in the production of its a priori recognitions which must, therefore, be distinguished from the features it has in common with other rational knowledge. Thus the judgment, that all the substance in things is permanent, is a synthetical and properly metaphysical judgment.

- 21.1 If the a priori principles, which constitute the materials of metaphysics, have first been collected according to fixed principles, then their analysis will be of great value, and might be taught as a particular part (as a *philosophia definitiva*), containing nothing but analytical judgments pertaining to metaphysics, and could be treated separately from the synthetical which constitute metaphysics proper.
- 21.2 For indeed these analyses are not of much value elsewhere, except in metaphysics, i.e., as regards the synthetical judgments, which are to be generated by these previously analyzed concepts.
- 22.1 The conclusion drawn in this section then is that metaphysics is properly concerned with synthetical propositions a priori, and these alone constitute its end, for which it indeed requires various dissections of its concepts, i.e., of its analytical judgments, but concerning which the procedure is not different from that in every other kind of knowledge, in which we seek merely to render our concepts distinct by analysis.
- 22.2 But the generation of a priori recognition by perspectives as well as by concepts, and then also of synthetical propositions a priori in philosophical recognition, this constitutes the essential subject of Metaphysics.
- 23.1 Weary, therefore, as well of dogmatism, which teaches us nothing, as of skepticism, which does not even promise us anything, not even the quiet state of a contented ignorance; and disquieted by the importance of recognition so much needed; and lastly, rendered suspicious by long experience of all recognition which we believe we possess, or which offers itself, under the title of pure reason: there remains but one critical question on the answer to which our future procedure depends, i.e., Is Metaphysics even possible?

- 23.2 But this question must be answered not by skeptical objections to the assertion of some actual system of metaphysics (for we do not as yet admit such a thing to exist), but from the conception, as yet only problematical, of a science of this sort.
- 24.1 In the *Critique of Pure Reason* I have treated this question synthetically by making inquiries into pure reason itself, and endeavoring in this source to determine the elements as well as the laws of its pure use according to principles.
- 24.2 The task is difficult and requires a resolute reader to penetrate by degrees into a system, based on no data except reason itself, and which therefore seeks, without resting upon any fact, to unfold knowledge from its original germs.
- 24.3 Prolegomena, however, are designed for preparatory exercises; they are intended rather to point out what we have to do in order, if possible, to actualize a science, than to propound it.
- 24.4 They must, therefore, rest upon something already known as trustworthy, from which we can set out with confidence, and ascend to sources as yet unknown, the discovery of which will not only explain to us what we knew, but exhibit a sphere of many recognitions which all spring from the same sources.
- 24.5 The method of prolegomena, especially of those designed as a preparation for future metaphysics, is consequently analytical.
- 25.1 But it happens fortunately, that though we cannot assume metaphysics to be an actual science, we can say with confidence that certain pure a priori synthetical recognitions, pure Mathematics and pure Physics, are actual and given; for both contain propositions which are thoroughly recognized as apodictically certain, partly by mere reason, partly by general consent arising from experience, and yet as independent of experience.
- 25.2 We have therefore at least some uncontested synthetical knowledge a priori, and need not ask whether it be possible, for it is actual. Rather we ask how it

is possible, in order that we may deduce from the principle which makes the given recognitions possible the possibility of all the rest.

The General Problem: How Is Recognition From Pure Reason Possible?

5

- 26.1 Above we have learned the significant distinction between analytical and synthetical judgments.
- 26.2 The possibility of analytical propositions was easily comprehended, being entirely founded on the law of contradiction.
- 26.3 The possibility of synthetical a posteriori judgments, of those which are gathered from experience, also requires no particular explanation; for experience is nothing but a continual synthesis of perceptions.
- 26.4 There remain therefore only synthetical propositions a priori, of which the possibility must be sought or investigated, because they must depend upon other principles than the law of contradiction.
- 27.1 But here we need not first establish the possibility of such propositions so as to ask whether they are possible.
- 27.2 For there are enough of them which indeed are of undoubted certainty, and as our present method is analytical, we shall start from the fact, that such synthetical, but purely rational, recognitions actually exists; but we must now inquire into the reason of this possibility, and ask, how such recognition is possible, in order that from the principles of its possibility we may be enabled to determine the conditions of its use, its sphere and its limits.
- 27.3 The proper problem upon which all depends, when expressed with scholastic precision, is therefore: How are synthetic propositions a priori possible?
- 28.1 For the sake of popularity I have above expressed this problem somewhat differently, as an inquiry into purely rational recognition, which I could do for once without detriment to the desired comprehension, because, as we

have only to do here with metaphysics and its sources, the reader will, I hope, after the foregoing remarks, keep in mind that when we speak of purely rational recognition, we do not mean analytical, but synthetical recognition.*

* Kant's annotation:

- 1.1 It is unavoidable that as the recognition advances, certain expressions which have become classical, after having been used since the infancy of science, will be found inadequate and unsuitable, and a newer and more appropriate application of the terms will give rise to confusion.
 - 1.2 The analytical method, to the extent it is opposed to the synthetical, is very different from that which constitutes the essence of analytical propositions: it signifies only that we start from what is sought, as if it were given, and ascend to the only conditions under which it is possible.
 - 1.3 In this method we often use nothing but synthetical propositions, as in mathematical analysis, and it were better to term it the regressive method, in contrast to the synthetic or progressive.
 - 1.4 A principal part of logic is also distinguished by the name of Analytics, which here signifies the logic of truth in contrast to Dialectics, without considering whether the recognitions belonging to it are analytical or synthetical.
-
- 29.1 Metaphysics stands or falls with the solution of this problem; indeed its very existence depends upon it.
 - 29.2 Let any one make metaphysical assertions with ever so much plausibility, let him overwhelm us with conclusions, if he has not previously proved able to answer this question satisfactorily, I have a right to say that this is all vain and baseless philosophy and false wisdom.
 - 29.3 You speak through pure reason, and claim, as it were, to create recognitions a priori by not only dissecting given concepts, but also by asserting connections which do not rest upon the law of contradiction, and which you believe you conceive of quite independently of all experience. How do you arrive at this, and how will you justify your pretensions?
 - 29.4 An appeal to the consent of the common sense of mankind cannot be allowed; for that is a witness whose authority depends merely upon rumor.

30.1 *Quodcunque ostendis mihi sic, incredulus odi.*³ Horace.

31.1 The answer to this question, though indispensable, is difficult; and though the principal reason that it was not made long ago is that the possibility of the question never occurred to anybody, there is yet another reason, which is this: that a satisfactory answer to this one question requires a much more persistent, profound, and painstaking reflection, than the most diffuse work on metaphysics, which on its first appearance promised immortality to its author.

31.2 And every intelligent reader, when he carefully reflects on what this problem requires, must at first be struck with its difficulty, and would regard it as insoluble and even impossible, did there not actually exist pure synthetical recognitions a priori. This actually happened to David Hume, though he did not conceive the question in its entire universality as is done here, and as must be done, should the answer be decisive for all metaphysics.

31.3 For how is it possible, says that acute man, that when a concept is given me, I can go beyond it and connect with it another, which is not contained in it, in such a manner as if the latter necessarily belonged to the former?

31.4 Nothing but experience can furnish us with such connections (thus he concluded from the difficulty which he took to be an impossibility), and all that vaunted necessity, or, what is the same thing, all recognition assumed to be a priori, is nothing but a long habit of accepting something as true, and hence of mistaking subjective necessity for objective.

32.1 Should my reader complain of the difficulty and the trouble which I occasion him in the solution of this problem, he is at liberty to solve it himself in an easier way.

32.2 Perhaps he will then feel under obligation to the person who has undertaken for him a labor of such profound research, and will rather be surprised at the facility with which, considering the nature of the subject, the solution has been attained. Yet it has cost years of work to solve the problem in its whole

³ To all that which thou provest me thus, I refuse to give credence.

universality (using the term in the mathematical sense, i.e., for that which is sufficient for all cases), and finally to exhibit it in the analytical form, as the reader finds it here.

- 33.1 All metaphysicians are therefore solemnly and rightly suspended from their occupations till they shall have answered in a satisfactory manner the question, "How are synthetic recognitions a priori possible?"
- 33.2 For the answer contains the only credentials which they must show when they have anything to offer in the name of pure reason. But if they do not possess these credentials, they can expect nothing else of reasonable people, who have been deceived so often, than to be dismissed without further ado.
- 34.1 If on the other hand they desire to carry on their business, not as a science, but as an art of wholesome oratory suited to the common sense of man, they cannot in justice be prevented.
- 34.2 They will then speak the modest language of a rational belief, they will grant that they are not allowed even to conjecture, far less to know, anything which lies beyond the bounds of all possible experience, but only to assume (not for speculative use, which they must abandon, but for practical purposes only) the existence of something that is possible and even indispensable for the guidance of the understanding and of the will in life.
- 34.3 In this manner alone can they be called useful and wise men, and the more so as they renounce the title of metaphysicians; for the latter profess to be speculative philosophers, and since, when judgments a priori are under discussion, poor probabilities cannot be admitted (for what is declared to be known a priori is thereby announced as necessary), such men cannot be permitted to play with conjectures, but their assertions must be either science, or are worth nothing at all.
- 35.1 It may be said, that the entire transcendental philosophy, which necessarily precedes all metaphysics, is nothing but the complete solution of the problem here propounded, in systematical order and completeness, and up until now we have never had any transcendental philosophy; for what goes by its name is properly a part of metaphysics, whereas the former sciences in-

tended first to constitute the possibility of the matter, and must therefore precede all metaphysics.

- 35.2 And it is not surprising that when a whole science, deprived of all help from other sciences, and consequently in itself quite new, is required to answer a single question satisfactorily, we should find the answer troublesome and difficult, nay even shrouded in obscurity.
- 36.1 As we now proceed to this solution according to the analytical method, in which we assume that such recognitions from pure reasons actually exist, we can only appeal to two sciences of theoretical recognition (which is what we are considering here), pure mathematics and pure natural science (physics). For these alone can exhibit to us objects in a perspective (*Anschauung*), and consequently (if there should occur in them a recognition a priori) can show the truth or conformity of the recognition to the object in concrete, i.e., its actuality, from which we could proceed to the reason of its possibility by the analytic method.
- 36.2 This facilitates our work greatly, for here universal considerations are not only applied to facts, but even start from them, while in a synthetic procedure they must strictly be derived in abstracts from concepts.
- 37.1 But, in order to rise from these actual and at the same time well-grounded pure recognitions a priori to such a possible recognition of the those as we are seeking, i.e., to metaphysics as a science, we must comprehend that which occasions it. I mean the mere natural, though in spite of its truth not unsuspected, recognition a priori which lies at the bottom of that science, the elaboration of which, without any critical investigation of its possibility, is commonly called metaphysics. In a word, we must comprehend the natural conditions of such a science as a part of our inquiry, and thus the transcendental problem will be gradually answered by a division into four questions:
1. How is pure mathematics possible?
 2. How is pure natural science possible?
 3. How is metaphysics in general possible?

4. How is metaphysics as a science possible?

- 38.1 It may be seen that the solution of these problems, though chiefly designed to exhibit the essential matter of the Critique, has yet something peculiar, which for itself alone deserves attention. This is the search for the sources of given sciences in reason itself, so that its faculty of knowing something a priori may by its own deeds be investigated and measured. By this procedure these sciences gain, if not with regard to their contents, yet as to their proper use, and while they throw light on the higher question concerning their common origin, they give, at the same time, an occasion better to explain their own nature.

First Part Of The Transcendental Problem: How Is Pure Mathematics Possible?

6

- 1.1 Here is a great and established recognition, encompassing even now a wonderfully large domain and promising an unlimited extension in the future. Yet it thoroughly entails apodictical certainty, i.e., absolute necessity, which therefore rests upon no empirical foundations. Consequently it is a pure product of reason, and moreover is thoroughly synthetical. How then is it possible for human reason to produce a recognition of this nature entirely a priori?
- 1.2 Does not this faculty, as it neither is nor can be based upon experience, presuppose some foundation of recognition a priori, which lies deeply hidden, but which might reveal itself by these its effects, if their first beginnings were but diligently ferreted out?

7

- 2.1 But we find that all mathematical recognition has this peculiarity: it must first exhibit its concept in a perspective and indeed a priori, therefore in a perspective which is not empirical, but pure. Without this, mathematics cannot take a single step; hence its judgments are always intuitive; whereas philosophy must be satisfied with discursive judgments from mere concepts, and though it may illustrate its doctrines via a perspective, can never derive them from it.
- 2.2 This inspection concerning the nature of mathematics gives us a clue to the first and highest condition of its possibility, which is that some pure perspective must form its basis, in which all its concepts can be exhibited or constructed in concrete and yet a priori.
- 2.3 If we can discover this pure perspective and its possibility, we may easily explain how synthetical propositions a priori are possible in pure mathematics, and consequently how this science itself is possible. Empirical perspective enables us without difficulty to enlarge the concept, which we frame of an object of perspective, by new predicates, which perspective itself presents

synthetically in experience. Pure perspective will do the same thing, only with this difference, that in the latter case the synthetical judgment is a priori certain and apodictical, while in the former, it is only a posteriori and empirically certain; because this empirical perspective contains only that which occurs in contingent empirical perspective, but the pure perspective, that which must necessarily be discovered in pure perspective. Here the pure perspective, being a perspective a priori, is before all experience, i.e., before any perception of particular objects, inseparably conjoined with its concept.

8

- 3.1 But with this step our perplexity seems rather to increase than to lessen.
- 3.2 For the question now is, "How is it possible to view anything a priori?"
- 3.3 A perspective is such a representation as immediately depends upon the presence of the object.
- 3.4 Hence it seems impossible from the very outset to view a priori, because in that case perspective would take place without either a former or present object to refer to, and hence could not be perspective.
- 3.5 Concepts indeed are such that we can easily form some of them a priori, i.e., such as contain nothing but the thought of an object in general; and we need not find ourselves in an immediate relation to the object. Take, for instance, the concepts of quantity, of cause, etc. But in order to make them understood, even these require a certain concrete use, i.e., an application to some perspective, by which an object of them is given us.
- 3.6 But how can the perspective of the object precede the object itself?

9

- 4.1 If our perspective were perforce of such a nature as to represent things as they are in themselves, there would not be any perspective a priori, but perspective would be always empirical.

- 4.2 For I can only know what is contained in the object in itself when it is present and given to me.
- 4.3 It is indeed even then incomprehensible how the perspective of a present thing should make me know this thing as it is on its own, as its properties cannot migrate into my faculty of representation. But even granting this possibility, a perspective of that sort would not take place a priori, i.e., before the object were presented to me. For without this latter no foundation of a relation between my representation and the object can be imagined, unless it depend upon a direct inspiration.
- 4.4 Therefore there is only one way that my perspective can anticipate the actuality of the object, and be a recognition a priori, i.e., if my perspective contains nothing but the form of the sensuous, preceding in my subjectivity all the actual impressions through which I am affected by objects.
- 4.5 For that objects of sense can only be looked at according to this form of the sensuous I can know a priori
- 4.6 Hence it follows that propositions, which only concern this form of sensuous perspective, are possible and valid for objects of the senses. Likewise and conversely, those perspectives which are possible a priori can never concern any other things than objects of our senses.

10

- 5.1 Accordingly, it is only the form of sensuous perspective by which we can view things a priori, but by which we can know objects only as they appear to us (to our senses), not as they are in themselves. This assumption is absolutely necessary if synthetical propositions a priori be granted as possible or, in case they actually occur, then if their possibility is to be comprehended and determined beforehand.
- 6.1 Now, the perspectives which pure mathematics lays at the foundation of all its recognitions and judgments which appear at once apodictic and necessary are space and time. For mathematics must first have all its concepts in a perspective, and pure mathematics in a pure perspective, i.e., it must construct them. If it proceeded in any other way, it would be impossible to make any

headway, for mathematics proceeds, not analytically by dissection of concepts, but synthetically, and if pure perspective were wanting, there would be nothing in which the matter for synthetical judgments a priori could be given.

- 6.2 Geometry is based upon the pure perspective of space.
- 6.3 Arithmetic accomplishes its concept of number by the successive addition of units in time; and pure mechanics especially cannot attain its concepts of motion without employing the representation of time.
- 6.4 Both representations, however, are only perspectives; for if we omit from the empirical perspectives of bodies and their alterations (motion) everything empirical or belonging to sensation, space and time still remain, which are therefore pure perspectives that lie a priori as the foundation of the empirical. Hence they can never be omitted, but at the same time, by their being pure perspectives a priori, they prove that they are mere forms of our senses, which must precede all empirical perspective, i.e., before perception of actual objects, and conformably to which objects can be known a priori, but only as they appear to us.

11

- 7.1 The problem of the present section is therefore solved.
- 7.2 Pure mathematics, as synthetical recognition a priori, is only possible by referring to no other objects than those of the senses. At the basis of their empirical perspective lies a pure perspective (of space and of time) which is a priori. This is possible because this pure perspective is nothing but the mere form of our senses, which precedes the actual appearance of the objects, in that it indeed makes them possible.
- 7.3 Yet this faculty of perspective a priori affects not the matter of the appearance, i.e., that which is empirical in it, for this constitutes that which is empirical, but only its form, i.e., space and time.
- 7.4 Should anyone venture to doubt that these are determinations adhering not to things on their own, but to their relation to our sensing capacity, I would like to know how it be possible to know the constitution of things a priori, i.e.,

before we have any acquaintance with them and before they are presented to us. Such, however, is the case with space and time.

- 7.5 But this is quite comprehensible as soon as both count for nothing more than formal conditions of our sensing capacity, while the objects count merely as appearances. In that case then the form of the appearance, i.e., pure perspective, can by all means be represented as proceeding from ourselves, i.e., a priori.

12

- 8.1 In order to add something by way of illustration and confirmation, we need only watch the ordinary and necessary procedure of geometers.
- 8.2 All proofs of the complete congruence of two given figures (where the one can in every respect be substituted for the other) come ultimately to this: that they may be made to coincide; which is evidently nothing else than a synthetic proposition resting upon immediate perspective, and this perspective must be pure, or given a priori, otherwise the proposition could not rank as apodictically certain, but would have empirical certainty only.
- 8.3 In that case, it could only be said that it is always found to be so, and holds good only as far as our perception reaches.
- 8.4 That everywhere space (which is itself no longer the boundary of another space) has three dimensions, and that space cannot in any way have more, is based on the proposition that not more than three lines can intersect at right angles in one point. But by no means can this proposition be shown from concepts; rather it rests immediately on perspective, and indeed on pure and a priori perspective, because it is apodictically certain. That we can require a line to be drawn to infinity (*in indefinitum*), or that a series of changes (for example, spaces traversed by motion) shall be infinitely continued, presupposes a representation of space and time, which can only attach to perspective, namely, to the extent it in itself is bounded by nothing, for from concepts it could never be inferred.
- 8.5 Consequently, the basis of mathematics is actually pure perspectives, which make its synthetic and apodictically valid propositions possible. Hence our transcendental deduction of the notions of space and of time explains at the

same time the possibility of pure mathematics. Without some such deduction its truth may be granted, but its existence could by no means be understood, and we must assume "that everything which can be given to our senses (to the external senses in space, to the internal one in time) is sighted by us as it appears to us, not as it is in itself."

13

- 9.1 Those who cannot yet rid themselves of the notion that space and time are actual qualities inhering in things on their own, may exercise their acumen on the following paradox. When they have in vain attempted its solution, and are free from prejudices at least for a few moments, they will suspect that the degradation of space and of time to mere forms of our sensuous perspective may perhaps be well founded.

- 10.1 If two things are quite equal in all respects as much as can be ascertained by all means possible, quantitatively and qualitatively, it must follow that the one can in all cases and under all circumstances replace the other, and this substitution would not occasion the least perceptible difference.

- 10.2 This in fact is true of plane figures in geometry; but some spherical figures, notwithstanding a complete internal agreement, exhibit such a contrast in their external relation, that the one figure cannot possibly be put in the place of the other. For instance, two spherical triangles on opposite hemispheres, which have an arc of the equator as their common base, may be quite equal, both as regards sides and angles, so that nothing is to be found in either, if it be described for itself alone and completely, that would not equally be applicable to both; and yet the one cannot be put in the place of the other (which is situated on the opposite hemisphere). Here then is an internal difference between the two triangles, which difference our understanding cannot describe as internal, and which only manifests itself by external relations in space.

- 10.3 But I shall adduce examples, taken from common life, that are even more obvious.

- 11.1 What can be more similar in every respect and in every part more alike to my hand and to my ear, than their images in a mirror?
- 11.2 And yet I cannot put such a hand as is seen in the glass in the place of its archetype; for if this is a right hand, that in the glass is a left one, and the image or reflection of the right ear is a left one which never can serve as a substitute for the other.
- 11.3 In this case there are no internal differences which our understanding could determine by thinking alone. Yet the differences are internal as the senses teach, for, notwithstanding their complete equality and similarity, the left hand cannot be enclosed in the same bounds as the right one (they are not congruent); the glove of one hand cannot be used for the other.
- 11.4 What is the solution?
- 11.5 These objects are not representations of things as they are in themselves, and as the pure understanding would know them, but perspectives via the senses, i.e., appearances, the possibility of which rests upon the relation of certain things unknown in themselves to something else, i.e., to our capacity for sensing.
- 11.6 Space is the form of the external perspective of this capacity for sensing, and the internal determination of every space is only possible by the determination of its external relation to the whole space, of which it is a part (in other words, by its relation to the external sense). That is to say, the part is only possible through the whole, which is never the case with things on their own, as objects of the mere understanding, but with appearances only.
- 11.7 Hence the difference between similar and equal things, which are yet not congruent (for instance, two symmetric helices), cannot be made intelligible by any concept, but only by the relation to the right and the left hands which immediately refers to perspective.

Remark I

- 12.1 Pure mathematics, and especially pure geometry, can only have objective reality on the condition that they refer to objects of sense. But in regard to the

latter the principle holds that our sense representation is not a representation of things on their own, but of the way in which they appear to us.

- 12.2 Hence it follows, that the propositions of geometry are not the results of a mere creation of our poetic imagination, such then that they cannot be referred with assurance to actual objects. Rather they are necessarily valid of space, and consequently of all that may be found in space, because space is nothing else than the form of all external appearances, and it is this form alone in which objects of sense can be given.
- 12.3 Sensuousness, the form of which is the basis of geometry, is that upon which the possibility of external appearance depends. These appearances, therefore, can never contain anything but what geometry prescribes to them.
- 12.4 It would be quite otherwise if the senses were so constituted as to represent objects as they are in themselves.
- 12.5 For then it would by no means follow from the conception of space, which with all its properties serves to the geometer as an a priori foundation, together with what is thence inferred, must be so in nature.
- 12.6 The space of the geometer would be considered a mere fiction, and it would not be credited with objective validity, because we cannot see how things must of necessity agree with an image of them, which we make spontaneously and prior to our acquaintance with them.
- 12.7 But if this image, or rather this formal perspective, is the essential property of our capacity of sensing, by means of which alone objects are given to us, and if this capacity represents not things on their own, but their appearances, then we can easily comprehend, and at the same time indisputably prove, that all external objects of our world of sense must necessarily coincide in the most rigorous way with the propositions of geometry. And the reason for this being that our senses makes all those objects possible as mere appearances by means of its form of external perspective, i.e., by space, the same with which the geometer is occupied.
- 12.8 It will always remain a remarkable phenomenon in the history of philosophy, that there was a time, when even mathematicians, who at the same time were philosophers, began to doubt, not the accuracy of their geometrical propositions to the extent they concerned space, but of their objective validity and

the applicability of this concept itself, and of all its corollaries, to nature. They showed much concern whether a line in nature might not consist of physical points, and consequently that true space in the object might consist of simple [discrete] parts, while the space which the geometer has in his mind [being continuous] cannot be such.

- 12.9 They did not recognize that this mental space renders possible the physical space, i.e., the extension of matter; that this pure space is not at all a quality of things on their own, but a form of our sensuous faculty of representation; and that all objects in space are mere appearances, i.e., not things on their own but representations of our sensuous perspective. But such is the case, for the space of the geometer is exactly the form of sensuous perspective which we find a priori in us, and contains the ground of the possibility of all external appearances (according to their form), and the latter must necessarily and most rigorously agree with the propositions of the geometer, which he draws not from any fictitious concept, but from the subjective basis of all external appearances, which is sensibility itself.
- 12.10 In this, and in no other, way can geometry be made secure as to the undoubted objective reality of its propositions against all the intrigues of a shallow metaphysics, which is surprised at the geometrical propositions, because it has not traced them to the sources of their concepts.

Remark II

- 13.1 Whatever is given to us as an object, must be given to us in a perspective.
- 13.2 Every human perspective, however, only takes place by means of the senses; for the understanding does no looking, but only reflects.
- 13.3 And as we have just shown that the senses never and in no way enable us to know things on their own, but only their appearances, which are mere representations of the capacity for sensing, we conclude that all bodies, together with the space in which they are, must be considered nothing but mere representations in us, and exist nowhere but in our thoughts.
- 13.4 You will say: Is this not clearly Idealism?

- 14.1 Idealism consists in the assertion, that there are none but thinking beings and all other things, which we think are perceived in perspective, are nothing but representations in the thinking beings, to which no object external to them corresponds in fact.
- 14.2 Whereas I say, that things as objects of our senses existing outside us are given, but we know nothing of what they may be in themselves. We only know their appearances, i.e., the representations which they cause in us by affecting our senses.
- 14.3 Consequently I grant by all means that there are bodies apart from us, i.e., things which, though quite unknown to us as to what they are in themselves, we yet know by the representations which their influence on our capacity of sensing procures us, and which we call bodies, a term signifying merely the appearance of the thing which is unknown to us, but not therefore less actual.
- 14.4 Can this be termed Idealism?
- 14.5 It is the very opposite.
- 15.1 Long before Locke's time, but assuredly since then, it has been generally assumed and granted, without detriment to the actual existence of external things, that many of their predicates may be said to belong not to the things on their own, but to their appearances, and to have no proper existence outside our representation.
- 15.2 Heat, color, and taste, for instance, are of this kind.
- 15.3 Now, if I go farther, and for weighty reasons rank as mere appearances the remaining qualities of bodies also, which are called primary, such as extension, place, and in general space, with all that which belongs to it (impenetrability or materiality, shape, etc.) no one can adduce any reason for it being inadmissible. As little as the man who admits colors not to be properties of the object in itself, but only as modifications of the sense of sight, should on that account be called an Idealist, so little can my system be named Idealistic, merely because I find that more, nay, all the properties which constitute the perspective of a body belong merely to its appearance. In this way then the existence of the thing that appears is not destroyed, as in genuine Ideal-

ism, but it is only shown, that we cannot possibly know it by the senses as it is in itself.

- 16.1 I should be glad to know what my assertions must be in order to avoid all Idealism.
- 16.2 Undoubtedly, I would have to say that the representation of space is not only perfectly conformable to the relation which our capacity for sensing has to objects--that I have said--but that it is quite similar to the object--an assertion in which I can find as little meaning as if I said that the sensation of red has a similarity to the property of vermilion, which excites this sensation in me.

Remark III

- 17.1 Hence we may at once dismiss an easily foreseen, but futile, objection, "that by admitting the Ideality of space and of time the whole world of sense would be turned into mere sham."
- 17.2 At first all philosophical insight into the nature of sensuous recognition was spoiled by making the sensibility merely a confused mode of representation, according to which we still know things as they are, but without being able to reduce everything in this our representation to a clear consciousness. But then we offered proof that sensibility consists, not in this logical distinction of clearness and obscurity, but in the genetical one of the origin of recognition itself. For sensitive recognition represents things not at all as they are, but only the mode in which they affect our senses, and consequently through perspective only appearances, and not things themselves, are given to the understanding for reflection. After this necessary corrective, an objection rises from an unpardonable and almost intentional misconception, as if my doctrine turned all the things of the world of sense into mere illusion.
- 18.1 When an appearance is given us, we are still quite free as to how we should judge the matter.

- 18.2 The appearance depends upon the senses, but the judgment upon the understanding, and the only question is whether in the determination of the object there is truth or not.
- 18.3 But the difference between truth and dreaming is not ascertained by the nature of the representations, which are referred to objects (for they are the same in both cases), but by their connection according to those rules, which determine the coherence of the representations in the concept of an object, and by ascertaining whether they can subsist together in experience or not.
- 18.4 And it is not the fault of the appearances if our recognition takes illusion for truth, i.e., if the perspective, by which an object is given us, is also considered a concept of the thing or of its existence, which the understanding can only think.
- 18.5 The senses represent to us the paths of the planets as now progressive, now retrogressive, and in this there is neither falsehood nor truth, because as long as we hold this path to be nothing but appearance, we do not judge of the objective nature of their motion.
- 18.6 But as a false judgment may easily arise when the understanding is not on its guard against this subjective mode of representation being considered objective, we say they appear to move backward. But it is not the senses which must be charged with the illusion, but the understanding, whose province alone it is to give an objective judgment on appearances.
- 19.1 Thus, even if we did not at all reflect on the origin of our representations, whenever we connect our perspectives of sense (whatever they may contain) in space and in time, according to the rules of the coherence of all recognition in experience, illusion or truth will arise according as we are negligent or careful. It is merely a question of the use of sensuous representations in the understanding, and not of their origin.
- 19.2 In the same way, if I consider all the representations of the senses, together with their form, space and time, to be nothing but appearances, and space and time to be a mere form of the sensibility, which is not to be met with in objects apart from it, and if only I make use of these representations in reference to possible experience, there is nothing in my regarding them as ap-

pearances that can lead astray or cause illusion. For all that they can correctly cohere according to rules of truth in experience.

- 19.3 Thus all the propositions of geometry hold good of space as well as of all the objects of the senses, consequently of all possible experience, whether I consider space as a mere form of the sensibility, or as something cleaving to the things themselves. In the former case however I comprehend how I can know a priori these propositions concerning all the objects of external perspective. Otherwise, everything else as regards all possible experience remains just as if I had not departed from the common viewpoint.
- 20.1 But if I venture to go beyond all possible experience with my notions of space and time, which I cannot refrain from doing if I proclaim them qualities inherent in things on their own (for what should prevent me from letting them hold good of the same things, even though my senses might be different, and unsuited to them?), then a grave error may arise due to illusion, for in this way I would proclaim to be universally valid what is merely a subjective condition of the perspective of things and sure only for all objects of sense, i.e., for all possible experience; and would refer this condition to things on their own, and not limit it to the conditions of experience.
- 21.1 My doctrine of the Ideality of space and of time, therefore, far from reducing the whole sensible world to mere illusion, is the only means of securing the application of one of the most important recognitions (that which mathematics propounds a priori) to actual objects, and of preventing it being regarded as mere illusion. For without this consideration it would be quite impossible to make out whether the perspectives of space and time, which we borrow from no experience, and which yet lie in our representation a priori, are not mere phantasms of our brain, to which objects do not correspond, at least not adequately, and consequently, whether we have been able to show its unquestionable validity with regard to all the objects of the sensible world just because they are mere appearances.
- 22.1 Secondly, though these my principles make appearances of the representations of the senses, they are so far from turning the truth of experience into mere illusion, that they are rather the only means of preventing the transcendental illusion, by which metaphysics has hitherto been deceived, leading to

the childish endeavor of catching at bubbles, because appearances, which are mere representations, were taken for things on their own. Here originated the remarkable event of the antimony of reason which I shall mention later, and which is destroyed by the single review that appearance, as long as it is employed in experience, produces truth, but the moment it transgresses the bounds of experience, and consequently becomes transcendent, produces nothing but illusion.

- 23.1 Inasmuch therefore, as I leave to things as we obtain them by the senses their actuality, and only limit our sensuous perspective of these things to this, that they represent in no respect, not even in the pure perspectives of space and of time, anything more than mere appearance of those things, but never their constitution in themselves, this is not a sweeping illusion invented by me for nature. Also my protestation against all charges of Idealism is so valid and clear as even to seem superfluous, were there not incompetent judges, who, while they would have an old name for every deviation from their perverse, though common, opinion, and never judge of the spirit of philosophic nomenclature, but cling to the letter only, are ready to put their own conceits in the place of well-defined notions, and thereby deform and distort them.
- 23.2 I have myself given this my theory the name of transcendental Idealism, but that cannot authorize any one to confound it either with the empirical Idealism of Descartes, (indeed, his was only an insoluble problem, owing to which he thought every one were at liberty to deny the existence of the corporeal world, because it could never be proved satisfactorily), or with the mystical and visionary Idealism of Berkeley, against which and other similar phantasms our Critique contains the proper antidote.
- 23.3 My Idealism concerns not the existence of things (the doubting of which, however, constitutes Idealism in the ordinary sense), since it never came into my head to doubt it, but it concerns the sensuous representation of things, to which space and time especially belong. Of these, consequently of all appearances in general, I have only shown, that they are neither things (but mere modes of representation), nor determinations belonging to things on their own.
- 23.4 But the word "transcendental," which with me means a reference of our recognition, i.e., not to things, but only to the cognitive faculty, was meant to obviate this misconception.

- 23.5 Yet rather than give further occasion to it by this word, I now retract it, and desire this Idealism of mine to be called critical.
- 23.6 But if it be really an objectionable Idealism to convert actual things (not appearances) into mere representations, by what name shall we call him who conversely changes mere representations to things?
- 23.7 It may, I think, be called "dreaming Idealism," in contradistinction to the former, which may be called "raving," both of which are to be refuted by my transcendental, or, better, critical Idealism.

Second Part Of The Transcendental Problem: How Is Science Of Nature Possible?

14

- 1.1 Nature is the existence of things, to the extent that existence is determined according to universal laws.
 - 1.2 Should nature signify the existence of things on their own, we could never know it either a priori or a posteriori.
 - 1.3 Not a priori, for how can we know what belongs to things on their own, since this never can be done by the dissection of our concepts (via analytical judgments)? We do not want to know what is contained in our concept of a thing (for that belongs to its logical being), but what is in the actuality of the thing superadded to our concept, and by what the thing itself is determined in its existence apart from the concept.
 - 1.4 Our understanding, and the conditions by which alone it can connect the determinations of things in their existence, do not prescribe any rule to things themselves. These do not conform to our understanding; rather our understanding must conform to them. Thus they must first be given to us in order for us to gather these determinations from them, but in which case then they would not be known a priori.
-
- 2.1 A recognition of the nature of things on their own a posteriori would be equally impossible.
 - 2.2 For if experience is to teach us laws to which the existence of things is subject, these laws, if they regard things on their own, must belong to them of necessity even outside of our experience.
 - 2.3 But experience teaches us what exists and how it exists, but never that it must necessarily exist so and not otherwise.
 - 2.4 Experience, therefore, can never teach us the nature of things on their own.

15

- 3.1 Nevertheless we do actually possess a pure science of nature in which laws are propounded to which nature is subject, laws which are a priori and with all the necessity requisite to apodictical propositions.
- 3.2 I need only call to witness that propaedeutic (preliminary instruction) of natural science which, under the rubric of the universal science of nature, precedes all physics (which is founded upon empirical principles).
- 3.3 In it we have mathematics applied to appearances, and also merely discursive principles (or those derived from concepts), which constitute the philosophical part of the pure recognition of nature.
- 3.4 But there are several things in it which are not quite pure and independent of empirical sources, such as the concept of motion, that of impenetrability (upon which the empirical concept of matter rests), that of inertia, and many others, which prevent it from being called a perfectly pure science of nature. And also it only refers to objects of the external sense and hence does not give an example of a universal science of nature in the strict sense, for such a science must reduce nature in general, whether it concerns the object of the external or that of the internal sense (the object of physics as well as of psychology), to universal laws.
- 3.5 But among the principles of this universal physics there are a few which actually have the required universality; for instance, the propositions that "substance is permanent, " and that "every event is determined by a cause according to constant laws," etc.
- 3.6 These are actually universal laws of nature, which subsist completely a priori.
- 3.7 Thus there is indeed a pure science of nature, and the question arises, how is it possible?

16

- 4.1 The word "nature" assumes yet another meaning, which determines the object, whereas in the former sense it only denotes the conformity to law [*Gesetzmäßigkeit*] of the determinations of the existence of things generally.
- 4.2 If we consider it with respect to its material (i.e., in the matter that forms its objects), "nature is the complex of all the objects of experience."
- 4.3 And it is only with this that we are now concerned. Besides, things which can never be objects of experience, if they must be known as to their nature, would oblige us to have recourse to concepts whose meaning could never be given *in concreto* (by any example of possible experience). Hence we must form for ourselves a list of concepts of their nature, the reality of which (i.e., whether they actually refer to objects, or are mere conceptions of thought) could never be determined.
- 4.4 The recognition of what cannot be an object of experience would be hyperphysical, and with things hyperphysical we are not concerned here, but only with the recognition of nature, the actuality of which can be confirmed by experience, even though that recognition is possible a priori and precedes all experience.

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- 5.1 Accordingly the formal aspect of nature in this narrower sense is the conformity of all the objects of experience to law, and to the extent this is known a priori, their necessary conformity.
- 5.2 But it has just been shown that the laws of nature can never be known a priori in objects to the extent they are considered not in reference to possible experience, but as things on their own.
- 5.3 And our inquiry here extends not to things on their own (the properties of which we leave aside), but to things as objects of possible experience, and the complex of these is what we properly designate as nature.
- 5.4 And now I ask: when the possibility of a recognition of nature a priori is in question, is it better to express the problem as:
how can we know a priori that things as objects of experience necessarily conform to law?

or as:

how is it possible to know a priori the necessary conformity to law of experience itself as regards all its objects generally?

- 6.1 Closely considered, the solution of the problem, represented either way with regard to the pure recognition of nature (which is the point of the question at issue), amounts entirely to the same thing.
- 6.2 For the subjective laws, under which alone an empirical recognition of things is possible, hold good of these things as objects of possible experience (not as things on their own, which are not considered here).
- 6.3 Either of the following statements means quite the same: "A judgment of perception can never rank as experience, without the law, that 'whenever an event is observed, it is always referred to some antecedent, which it follows according to a universal rule'"; or alternatively, "Everything, of which experience teaches that it happens, must have a cause."⁴
- 7.1 It is, however, more commendable to choose the first formula.
- 7.2 For we can a priori and in advance of all given objects have a recognition of those conditions on which alone experience is possible, but never of the laws to which things may be subject on their own and without reference to possible experience. Hence we cannot study the nature of things a priori otherwise than by investigating the conditions and the universal (though subjective) laws under which alone such a recognition as experience (as to mere form) is possible, and we determine accordingly the possibility of things, as objects of experience. For if I should choose the second formula and seek the conditions a priori on which nature as an object of experience is possible, I might easily fall into error and fancy that I was speaking of nature as a thing on its own, and then move round in endless circles, in a vain search for laws concerning things of which nothing is given me.

⁴ Essentially this means: every event is an effect.

- 8.1 Accordingly we shall be concerned here with experience only, and the universal conditions of its possibility, which are given a priori. Then we shall determine nature as the whole object of all possible experience.
- 8.2 I think it will be understood that here I do not mean the rules of the inspection of a nature that is already given, for these already presuppose experience. I also do not mean how (through experience) we can study the laws of nature; for these would not then be laws a priori, and would yield us no pure science of nature. Rather the question is how the conditions a priori of the possibility of experience are at the same time the sources from which all the universal laws of nature must be derived.

18

- 9.1 In the first place we must note that while all judgments of experience are empirical, i.e., have their ground in immediate sense perception, not all empirical judgments are judgments of experience, but, besides the empirical, and in general besides what is given to the sensuous perspective, particular concepts must yet be supervened, concepts which have their origin quite a priori in the pure understanding, and under which every perception must first of all be subsumed and then, by their means, changed into experience.
- 10.1 Empirical judgments, to the extent they have objective validity, are judgments of experience; but those which are only subjectively valid, I call mere judgments of perception.
- 10.2 The latter require no pure concept of the understanding, but only the logical connection of perception in a thinking subject.
- 10.3 But the former, i.e., judgements of experience, in addition to the representation of the sensuous perspective, always require particular concepts originally begotten in the understanding, which produce the objective validity of the judgment of experience.
- 11.1 At the beginning all our judgments are merely judgments of perception, i.e., they hold good only for us (i.e., for our subject), and only later do we give them a new reference (to an object), and desire that they shall always hold good for us and in the same way for everybody else. For when a judgment

agrees with an object, all judgments concerning the same object must likewise agree among themselves, and thus the objective validity of the judgment of experience signifies nothing else than the necessary universality of its application.

- 11.2 And conversely when we have reason to consider a judgment necessarily universal (which never depends upon perception, but upon the pure concept of the understanding, under which the perception is subsumed), we must consider it objective also, i.e., it expresses not merely a reference of our perception to a subject, but a quality of the object. For there would be no reason for the judgments of other people to necessarily agree with mine, if it were not the unity of the object to which they all refer, and with which they accord; hence they must all agree with each other.

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- 12.1 Objective validity, therefore, and necessary universality (for everybody) are equivalent terms, and though we do not know the object in itself, yet when we consider a judgment as universal, and also necessary, we understand it to have objective validity.
- 12.2 By this judgment we know the object (though it remains unknown to us as it is in itself) by the universal and necessary connection of the given perceptions. As this is the case with all objects of sense; judgments of experience take their objective validity not from the immediate recognition of the object (which is impossible), but from the condition of universal validity in empirical judgments which, as already stated, never rests upon empirical or, in short, sensuous conditions, but upon a pure concept of the understanding.
- 12.3 On its own the object always remains unknown; but when, via the concept of the understanding, the connection of the representations of the object, which are given to our sensibility, is determined as universally valid, the object is determined by this relation, and it is the judgment that is objective.
- 13.1 To illustrate the matter: When we say, "the room is warm, sugar sweet, and wormwood bitter,"* -- we have only subjectively valid judgments.

- 13.2 I do not at all expect that I or any other person shall always find it as I do now. Each of these statements only expresses a relation of two sensations to the same subject, myself, and then only in my present state of perception. Consequently they are not valid of the object. Such are judgments of perception.
- 13.3 Judgments of experience are of quite a different nature.
- 13.4 What experience teaches me under certain circumstances, it must always teach me and everyone else. And its validity is not limited to the subject nor to its state at a particular time.
- 13.5 Hence I pronounce all such judgments as being objectively valid. For example, when I say that the air is elastic, this judgment is as yet a judgment of perception only--I do nothing but refer two of my sensations to each other.⁵
- 13.6 But if I would have it called a judgment of experience, I require this connection to stand under a condition, which makes it universally valid.
- 13.7 I desire, therefore, that I and everybody else should always connect necessarily the same perceptions under the same circumstances.

* Kant's annotation.

- 1.1 I freely grant that these examples do not represent such judgments of perception as ever could become judgments of experience, even if a concept of the understanding were superadded, because they refer merely to feeling, which everybody knows to be merely subjective, and which of course can never be attributed to the object, and consequently can never become objective. I only wished to give here an example of a judgment that is merely subjectively valid, containing no basis for universal validity, and thus no basis for a relation to the object.
- 1.2 An example of the judgments of perception, which become judgments of experience by superadded concepts of the understanding, will be given in the next note.

20

⁵ One sensation would be the air itself as something we can breathe and run our hands through or fan. But then when the air is heated it expands. And so air is elastic. For example: when I heat the air, it expands and takes up greater space. This is mentioned below in 15.3.

- 14.1 Consequently we must analyze experience in order to see what is contained in this product of the senses and understanding, and how the judgment of experience itself is possible.
- 14.2 The foundation is the perspective of which I become conscious, i.e., perception (*Wahrnehmung*⁶), which pertains merely to the senses.
- 14.3 But secondly, there are acts of judging (which belong only to the understanding).
- 14.4 But this judging may be twofold. First I may merely compare perceptions and connect them in a particular state of my consciousness. Or secondly, I may connect them in consciousness generally.
- 14.5 The former judgment is merely a judgment of perception, and of subjective validity only. It is merely a connection of perceptions in my mental state, without reference to the object.
- 14.6 Hence it is not, as is commonly imagined, enough for experience to compare perceptions and to connect them in consciousness through judgment. In this way there arises no universality and necessity, for which alone judgments can become objectively valid and be called experience.
- 15.1 Therefore quite another judgment is required before perception can become experience.
- 15.2 The given perspective must be subsumed under a concept which determines the form of judging in general with respect to the perspective, connects its empirical consciousness to consciousness generally, and in that way procures universal validity for empirical judgments. A concept of this nature is a pure a priori concept of the understanding, which does nothing but determine for a perspective the general way in which it can be used for judgments.
- 15.3 Let the concept be that of cause; then it determines the perspective which is subsumed under it, e.g., that of air, relative to judgments in general, i.e., with

⁶ Literally: a careful take.

regard to its expansion the concept of air serves in the relation of antecedent to consequent in a hypothetical judgment.

- 15.4 Accordingly the concept of cause is a pure concept of the understanding, which is totally disparate from all possible perception, and only serves to determine the representation subsumed under it relatively to judgments in general, and in this way to make a universally valid judgment possible.
- 16.1 Accordingly then before a judgment of perception can become a judgment of experience, it is requisite that the perception should be subsumed under some such concept of the understanding. For instance, air ranks under the concept of causes, which determines our judgment about it with regard to its expansion as hypothetical.*
- 16.2 In this way the expansion of the air is represented not merely as belonging to the perception of the air in my present state or in several states of mine, or in the state of perception of others, but as belonging to it necessarily. The judgment, "air is elastic," becomes universally valid, and a judgment of experience, only by certain judgments preceding it, which subsume the perspective of air under the concept of cause and effect. And in this way they determine the perceptions not merely as regards one another in me, but relatively to the form of judging in general, which is here hypothetical, and in this way they render the empirical judgment universally valid.

* Kant's annotation.

- 1.1 As an easier example, we may take the following:
- 1.2 "When the sun shines on the stone, it grows warm."
- 1.3 This judgment, however often I and others may have perceived it, is a mere judgment of perception, and contains no necessity; perceptions are usually only conjoined in this manner.
- 1.4 But if I say, "The sun warms the stone," I add to the perception a concept of the understanding, i.e., that of cause, which connects the concept of heat with that of sunshine as a necessary consequence, and the synthetical judgment becomes of necessity universally valid, i.e., objective, and is converted from a perception into experience.

- 17.1 If all our synthetical judgments are analyzed to the extent they are objectively valid, it will be found that they never consist of mere perspectives simply connected by comparison into a judgment (as is commonly believed). Indeed they would be impossible were not a pure concept of the understanding superadded to the concepts abstracted from perspective, under which concept these latter are subsumed, and only in this manner combined into an objectively valid judgment.
- 17.2 Even the judgments of pure mathematics in their simplest axioms are not exempt from this condition.
- 17.3 The principle, "a straight line is the shortest distance between two points," presupposes that the line is subsumed under the concept of quantity, which certainly is no mere perspective, but has its seat in the understanding alone, and serves to determine the perspective (of the line) with regard to the judgments which may be made about it, relatively to their quantity, i.e., to plurality (as *judicia plurativa*).* For under them it is understood that in a given perspective there is contained a plurality of homogenous parts.

* Kant's annotation.

- 1.1 This name seems preferable to the term *particularia*, which is used for these judgments in logic.
- 1.2 For the latter implies the Idea that they are not universal.
- 1.3 But when I start from unity (in single judgments) and so proceed to universality, I must not imply any reference to universality. I think plurality merely without universality, and not the exception from universality.
- 1.4 This is necessary if logical considerations shall form the basis of the pure concepts of the understanding. However, there is no need of making changes in logic.

21

- 18.1 To prove then the possibility of experience to the extent it rests upon pure concepts of the understanding a priori, we must first present what belongs to judgments in general and the various functions of the understanding in a complete table. For the pure concepts of the understanding must run parallel to these functions, for such concepts are nothing more than concepts of perspectives in general, to the extent these are determined by the one or the

other of these functions of judging in themselves, i.e., necessarily and universally.

- 18.2 In this way also the a priori principles of the possibility of all experience, as of an objectively valid empirical recognition, will be precisely determined.
- 18.3 For they are nothing but propositions by which every perception is (under certain universal conditions of perspective) subsumed under those pure concepts of the understanding.

Logical Table Of Judgments

	1. As to Quantity. Universal. Particular. Singular.	
2. As to Quality. Affirmative. Negative. Infinite.		3. As to Relation. Categorical. Hypothetical. Disjunctive.
	4. As to Modality. Problematical. Assertorical. Apodictical.	

Transcendental Table Of the Pure Concepts Of The Understanding

	1. As to Quantity Unity (the Measure) Plurality (the Quantity) Totality (the Whole)	
2. As to Quality Reality Negation Limitation		3. As to Relation Substance Cause Community
	4.	

As to Modality

Possibility

Existence

Necessity

Pure Physical Table Of The Universal Principles Of The Science Of Nature

Axioms of Perspective

Anticipations of Perception

Analogies of Experience

Postulates of Empirical Thinking generally

21

- 19.1 In order to comprise the whole matter in one concept, it is first necessary to remind the reader that we are not discussing the origin of experience, but of what lies in experience.
- 19.2 The former pertains to empirical psychology, and even then would never be adequately explained without the latter, which belongs to the critique of recognition, and particularly of the understanding.
- 20.1 Experience consists of perspectives, which belong to the sensibility, and of judgments, which are entirely a work of the understanding.
- 20.2 But the judgments, which the understanding forms alone from sensuous perspectives, are far from being judgments of experience.
- 20.3 For in the one case the judgment connects only the perceptions as they are given in the sensuous perspective, while in the other the judgments must express what experience in general, and not what the mere perception (which possesses only subjective validity), contains.
- 20.4 Accordingly the judgment of experience must add to the sensuous perspective and its logical connection in a judgment (after it has been rendered universal by comparison) something that determines the synthetical judgment as necessary and therefore as universally valid. This can be nothing else than that concept which represents the perspective as determined in itself with re-

spect to one form of judgment rather than another, i.e., a concept of that synthetic unity of perspectives which can only be represented by a given logical function of judgments.

22

- 21.1 The sum of the matter is this: the business of the senses is to view, while that of the understanding is to think.
- 21.2 But thinking is uniting representations in one consciousness.
- 21.3 This union originates either merely relative to the subject, and is accidental and subjective, or is absolute and necessary or objective.⁷
- 21.4 The union of representations in one consciousness is judgment.
- 21.5 Thinking therefore is the same as judging, or referring representations to judgments in general.
- 21.6 Hence judgments are either merely subjective, when representations are referred to a consciousness in one subject only and united in it, or objective, when they are united in a consciousness generally, i.e., necessarily.
- 21.7 The logical functions of all judgments are but various modes of uniting representations in consciousness.
- 21.8 But if they serve for concepts, they are concepts of their necessary union in a consciousness, and so principles of objectively valid judgments.
- 21.9 This unification in a consciousness is either analytical by identity, or synthetic by the combination and addition of various representations, one to another.
- 21.10 Experience consists in the synthetic connection of appearances (perceptions) in consciousness, to the extent this connection is necessary.

⁷ The former is a subjective perception, e.g., when the sun shines on the stone, the stone grows warmer, and the latter an objective perception, i.e., a recognition, e.g., the sunlight causes the stone to warm up.

21.11 Hence the pure concepts of the understanding are concepts under which all perceptions must be subsumed before they can serve for judgments of experience, in which the synthetical unity of the perceptions is represented as necessary and universally valid.*

* Kant's annotation.

1.1 But how does this proposition, "judgments of experience contain necessity in the synthesis of perceptions," agree with my statement so often before inculcated that "experience as recognition a posteriori can render contingent judgments only?"

1.2 "When I say that experience teaches me something, I mean only the perception that lies in experience, for example, that heat always follows the shining of the sun on a stone; consequently the proposition of experience is always so far accidental.

1.3 That this heat necessarily follows the shining of the sun is contained indeed in the judgment of experience (by means of the concept of cause), yet is a fact not learned by experience; for conversely, experience is first of all generated by this addition of the concept of the understanding (of cause) to perception.

1.4 How perception attains this addition may be seen by referring in the Critique itself to the section on the Transcendental Faculty of Judgment Page 137.

23

22.1 Judgments, when considered merely as the condition of the union of given representations in a consciousness, are rules.

22.2 These rules, to the extent they represent the union as necessary, are rules a priori, and to the extent they cannot be deduced from higher rules, are fundamental principles.

22.3 But with regard to the possibility of all experience merely in relation to the form of thinking in it, no conditions of judgments of experience are higher than those which bring the appearances, according to the diverse form of their perspective, under pure concepts of the understanding, and render the empirical judgment objectively valid. These concepts are therefore the a priori principles of possible experience.

- 23.1 The principles of possible experience are then at the same time universal laws of nature, which can be known a priori.
- 23.2 And thus the problem in our second question, "How is the pure science of nature possible?" is solved.
- 23.3 For the system which is required for the form of a science is to be met with in perfection here, because, beyond the above mentioned formal conditions of all judgments in general offered in logic, no others are possible, and these constitute a logical system. Accordingly then the concepts based on this, which contain the a priori conditions of all synthetical and necessary judgments, constitute a transcendental system. And finally the principles, by means of which all appearances are subsumed under these concepts, constitute a physical system, i.e., a system of nature, which precedes all empirical recognition of nature, makes it even possible, and hence may in strictness be denominated the universal and pure science of nature.

24

- 24.1 The first one* of the physiological principles subsumes all appearances, as perspectives in space and time, under the concept of quantity, and is to this extent a principle of the application of mathematics to experience.
- 24.2 The second one subsumes the empirical element, i.e., sensation, which denotes the real in perspectives, not indeed directly under the concept of quantity, because sensation is not a perspective that contains either space or time, though it places the respective object into both. But still between reality (representation with sensation) and zero, or total void of perspective in time, there is a difference which has a quantity. For between every given degree of light and of darkness, between every degree of heat and of absolute cold, between every degree of weight and of absolute lightness, between every degree of occupied space and of totally void space, diminishing degrees can be conceived, in the same manner as between consciousness and total unconsciousness (the darkness of a psychological blank) ever diminishing degrees obtain. Hence there is no perception that can prove an absolute absence of consciousness; for example, no psychological darkness that cannot be considered as a kind of consciousness, which is only outbalanced by a stronger consciousness. This occurs in all cases of sensation, and so the understanding can anticipate even sensations, which constitute the peculiar quality of

empirical representations (appearances), by means of the principle: "that they all have (consequently that which is real in all appearances has) a degree." Here is the second application of mathematics (*mathesis intensortim*) to the science of nature.

* Kant's annotation.

1.1 This and the following two paragraphs will hardly be understood unless reference be made to what the *Critique* itself says on the subject of the principles. They will, however, be of service in giving a general overview of the principles, and in fixing the attention of the main points.

25

- 25.1 Concerning the relation of appearances merely with regard to their existence, the determination is not mathematical but dynamical, and can never be objectively valid, consequently never fit for experience, unless it comes under a priori principles by which the recognition of experience relative to appearances becomes even possible.
- 25.2 Hence appearances must be subsumed under the concept of substance, which is the foundation of every determination of existence, as a concept of the thing itself; or secondly to the extent a succession is found among appearances, i.e., an event under the concept of an effect with reference to cause; or lastly to the extent coexistence is to be known objectively, i.e., by a judgment of experience under the concept of community (action and reaction). Thus a priori principles form the basis of objectively valid, though empirical, judgments, i.e., of the possibility of experience to the extent it must connect objects as existing in nature.
- 25.3 These principles are the proper laws of nature, which may be termed dynamical.
- 26.1 Finally the recognition of the agreement and connection not only of appearances among themselves in experience, but of their relation to experience in general, belongs to the judgments of experience. This relation contains either their agreement with the formal conditions, which the understanding knows, or their coherence with the materials of the senses and of perception, or combines both into one concept. Consequently it contains possibility, actual-

ity and necessity according to universal laws of nature; and this constitutes the physical doctrine of method, or the distinction of truth and of hypotheses, and the bounds of the certainty of the latter.

26

- 27.1 The third table of principles drawn from the nature of the understanding itself after the critical method, shows an inherent perfection, which raises it far above every other table which hitherto, though in vain, has been tried or may yet be tried by analyzing the objects themselves dogmatically. It exhibits all synthetical a priori principles completely and according to one principle, i.e., the faculty of judging in general, constituting the essence of experience as regards the understanding, so that we can be certain that there are no more such principles, which affords a satisfaction such as can never be attained by the dogmatical method. Yet is this not all; there is a still greater merit in it.
- 28.1 We must carefully bear in mind the proof which shows the possibility of this recognition a priori, and at the same time limits all such principles to a condition which must never be overlooked if we desire it not to be misunderstood and extended in use beyond the original sense which the understanding attaches to it. This limit is that they contain nothing but the conditions of possible experience in general to the extent it is subjected to laws a priori.
- 28.2 Consequently I do not say that things on their own possess a quantity, that their actuality possesses a degree, their existence a connection of accidents in a substance, etc. This no one can prove, because such a synthetical connection from mere concepts, without any reference to sensuous perspective on the one side, or connection of it in a possible experience on the other, is absolutely impossible.
- 28.3 The essential limitation of the concepts in these principles then is that all things stand necessarily a priori under the above cited conditions, as objects of experience only.
- 29.1 Hence there follows, secondly, a specifically peculiar mode of proof of these principles: they are not directly referred to appearances and to their relations,

but to the possibility of experience, of which appearances constitute the material only, and not the form. Thus they are referred to objectively and universally valid synthetical propositions, in which we distinguish judgments of experience from those of perception.

- 29.2 This takes place because appearances, as mere perspectives and occupying a part of space and time, come under the concept of quantity, which synthetically unites their manifold a priori according to rules. Again, to the extent the perception contains, besides perspective, sensibility, and between the latter and nothing, i.e., the total disappearance of sensibility, there is an ever-decreasing transition, it is apparent that that which is in appearances must have a degree, to the extent the perception does not itself occupy any part of space or of time.* Still the transition to actuality from empty time or empty space is only possible in time; consequently though sensibility, as the quality of empirical perspective, can never be known a priori by its specific difference from other sensibilities, yet it can, in a possible experience in general, as a quantity of perception be intensely distinguished from every other similar perception. Hence the application of mathematics to nature, as regards the sensuous perspective by which nature is given to us, becomes possible and is thus determined.

* Kant's annotation.

- 1.1 Heat and light in a small space are just as large as to degree as in a large one; in a like manner the internal representations, pain, consciousness in general, whether they last a short or a long time, need not vary as to the degree.
- 1.2 Hence the quantity is here in a point and in a moment just as great as in any space or time however great.
- 1.3 Degrees are therefore capable of increase, but not in perspective, rather in mere sensation (or the quantity of the degree of a perspective). Hence they can only be estimated quantitatively by the relation of 1 to 0, i.e., by their capability of decreasing by infinite intermediate degrees to disappearance, or of increasing from nothing through infinite gradations to a determinate sensation in a certain time. *Quantitas qualitatis est gradus.*⁸

- 30.1 Above all the reader must pay attention to the mode of proof of the principles which occur under the title of analogies of experience.

⁸ The degrees of quality must be measured by equality.

- 30.2 For these do not refer to the genesis of perspectives, as do the principles of applied mathematics, but to the connection of their existence in experience. And this can be nothing but the determination of their existence in time according to necessary laws under which alone the connection is objectively valid, and thus becomes experience. The proof, therefore, does not turn on the synthetical unity in the connection of things on their own, but merely of perceptions, and of these not in regard to their matter, but to the determination of time and of the relation of their existence in it, according to universal laws.
- 30.3 If the empirical determination in relative time is indeed objectively valid, i.e., experience, these universal laws contain the necessary determination of existence in time generally, i.e., according to a rule of the understanding a priori.
- 30.4 In these Prolegomena I cannot further descant on the subject, but my reader (who has probably been long accustomed to consider experience a mere empirical synthesis of perceptions, and hence not considered that it goes much beyond them, as it imparts to empirical judgments universal validity, and for that purpose requires a pure and a priori unity of the understanding) is recommended to pay special attention to this distinction of experience from a mere aggregate of perceptions, and to judge the mode of proof from this perspective.

27

- 31.1 Now we are prepared to remove Hume's doubt.
- 31.2 He rightly maintains that we cannot comprehend by reason the possibility of causality, i.e., of the reference of the existence of one thing to the existence of another, which is necessitated by the former.
- 31.3 I add that we comprehend just as little the concept of subsistence, i.e., the necessity that at the foundation of the existence of things there lies a subject which cannot itself be a predicate of any other thing. Nay, we cannot even form a notion of the possibility of such a thing (though we can point out examples of its use in experience⁹). The very same incomprehensibility affects

⁹ We may say: this table is red; but not: this red is a table; for table is a substance, and red a predicate.

the community of things, as we cannot comprehend how from the state of one thing an inference to the state of quite another thing beyond it, and vice versa, can be drawn, and how substances which have each their own separate existence should depend upon one another necessarily.

- 31.4 But I am very far from holding these concepts to be derived merely from experience, and the necessity represented in them to be imaginary and a mere illusion produced in us by long habit. On the contrary, I have amply shown that they and the theorems derived from them are firmly established a priori, i.e., before all experience, and have their undoubted objective value, though only with regard to experience.

28

- u32.1 Though I have no notion of such a connection of things on their own, that they can either exist as substances, or act as causes, or stand in community with others (as parts of a real whole), and I can just as little conceive such properties in appearances as such (because those concepts contain nothing that lies in the appearances, but only what the understanding alone must think), we still have a notion of such a connection of representations in our understanding and in judgments generally and consisting in this: that representations appear in one sort of judgments as subject in relation to predicates, in another as cause in relation to consequences, and in a third as parts, which constitute together a total possible recognition.
- 32.2 Besides we know a priori that without considering the representation of an object as determined in some of these respects, we can have no valid recognition of the object, and if we should occupy ourselves with the object in itself, there is no possible attribute by which I could know that it is determined under any of these aspects, i.e., under the concept either of substance, or of cause, or (in relation to other substances) of community, for I have no notion of the possibility of such a connection of existence.
- 32.3 But the question is not how things are on their own, but how the empirical recognition of things is determined as regards the above aspects of judgments in general, i.e., how things, as objects of experience, can and shall be subsumed under these concepts of the understanding.

32.4 And then it is clear that I completely comprehend not only the possibility, but also the necessity, of subsuming all appearances under these concepts, i.e., of using them for principles of the possibility of experience.

29

33.1 When making an experiment with Hume's problematical concept (his *crux metaphysicorum*), the concept of cause, we have, in the first place, given a priori by means of logic the form of a conditional judgment in general, i.e., we have one given recognition as antecedent and another as consequence.

33.2 But it is possible that in perception we may meet with a rule of relation, which runs thus: that a certain appearance is constantly followed by another (though not conversely), and this is a case for me to use the hypothetical judgment, and, for instance, to say, if the sun shines long enough upon a body, it grows warm.

33.3 Here there is indeed as yet no necessity of connection, or concept of cause.

33.4 But I proceed and say that if this proposition, which is merely a subjective connection of perceptions, is to be a judgment of experience, it must be considered as necessary and universally valid.

33.5 Such a proposition would be, "the sun is by its light the cause of heat."

33.6 The empirical rule is now considered as a law, and as valid not merely of appearances but valid of them for the purposes of a possible experience, which requires universal and, therefore, necessarily valid rules.

33.7 Hence I easily comprehend the concept of cause as a concept necessarily belonging to the mere form of experience, and its possibility as a synthetical union of perceptions in consciousness generally. But I do not at all comprehend the possibility of a thing generally as a cause, because the concept of cause denotes a condition not at all belonging to things, but to experience. It is nothing in fact but an objectively valid recognition of appearances and of their succession, to the extent the antecedent can be conjoined with the consequent according to the rule of hypothetical judgments.

30

- 34.1 Hence if the pure concepts of the understanding do not refer to objects of experience, but to things on their own (noumena), they have no signification whatever.
- 34.2 They serve, as it were, only to decipher appearances, that we may be able to read them as experience. The principles which arise from their reference to the sensible world only serve our understanding for empirical use. Beyond this they are arbitrary combinations and without objective reality, and we can neither know their possibility a priori, nor verify their reference to objects, let alone make it intelligible by any example; because examples can only be borrowed from some possible experience, consequently the objects of these concepts can be found nowhere but in a possible experience.
- 35.1 This complete (though to its originator unexpected) solution of Hume's problem rescues for the pure concepts of the understanding their a priori origin, and for the universal laws of nature their validity as laws of the understanding, yet in such a way as to limit their use to experience, because their possibility depends solely on the reference of the understanding to experience, but with a completely reversed mode of connection which never occurred to Hume, not by deriving them from experience, but by deriving experience from them.
- 36.1 Here is, therefore, the result of all our foregoing inquiries: "All synthetical principles a priori are nothing more than principles of possible experience, and can never be referred to things on their own, but only to appearances as objects of experience. And hence pure mathematics as well as a pure science of nature can never be referred to anything other than mere appearances, and can only represent either that which makes experience possible generally, or else that which, as it is derived from these principles, must always be capable of being represented in some possible experience."

31

- 37.1 And thus at last we have something definite upon which to depend in all metaphysical enterprises, which have hitherto, boldly enough, but always at random, attempted everything without discrimination.
- 37.2 That the aim of their exertions should be so near, struck neither the dogmatical thinkers nor those who, confident in their supposed sound common sense, started with concepts and principles of pure reason (which were legitimate and natural, but destined for mere empirical use) in inquiry, to which they neither knew, nor could know, any determinate bounds, because they had never reflected nor were able to reflect on the nature, or even on the possibility, of such a pure understanding.
- 38.1 Many a naturalist of pure reason (by which I mean the man who believes he can decide in matters of metaphysics without any science) may pretend that by the prophetic spirit of his sound sense, he long ago not only suspected, but knew and comprehended what is here propounded with so much ado, or, if he likes, with prolix and pedantic pomp: "that with all our reason we can never reach beyond the field of experience."
- 38.2 But when he is questioned about his rational principles individually, he must grant that there are many of them which he has not taken from experience, and which are, therefore, independent of it and valid a priori. How then and on what grounds will he restrain both himself and the dogmatist, who makes use of these concepts and principles beyond all possible experience, because they are recognized to be independent of it?
- 38.3 And even he, this adept in sound sense, in spite of all his assumed and cheaply acquired wisdom, is not exempt from wandering inadvertently beyond objects of experience into the field of chimeras.
- 38.4 He is often deeply enough involved in them, though in announcing everything as mere probability, rational conjecture or analogy, he gives by his popular language a color to his groundless pretensions.

32

- 39.1 Since the oldest days of philosophy inquirers into pure reason have conceived, besides the things of sense, or appearances (phaenomena), which

make up the sensible world, certain creations of the understanding (*Verstandeswesen*) called noumena, which should constitute an intelligible world. And as appearance and illusion were by those men identified (a thing which we may well excuse in an undeveloped epoch), actuality was only conceded to the creations of thought.

- 40.1 And we indeed, rightly considering objects of sense as mere appearances, confess by that that they are based upon a thing on its own, though we don't know this thing in its internal constitution, but only its appearances, i.e., the way in which our senses are affected by this unknown something.
- 40.2 The understanding, therefore, by assuming appearances, grants the existence of things on their own also, and this far we may say that the representation of such things as form the basis of appearances, consequently of mere creations of the understanding, is not only admissible, but unavoidable.
- 41.1 Our critical deduction by no means excludes things of that sort (*noumena*), but rather limits the principles of the aesthetic (the science of the sensibility) to this: that they shall not extend to all things, as everything would then be turned into mere appearance, but that they shall only hold good of objects of possible experience.
- 41.2 In this way then objects of the understanding are granted, but with the inculcation of this rule which admits of no exception: "that we neither know, nor can know, anything at all definite of these pure objects of the understanding, because our pure concepts of the understanding as well as our pure perspectives extend to nothing but objects of possible experience, consequently to mere things of sense, and as soon as we leave this sphere these concepts retain no meaning whatever."

33

- 42.1 There is indeed something seductive in our pure concepts of the understanding which tempts us to a transcendent use, a use which transcends all possible experience.

- 42.2 Not only are our concepts of substance, of power, of action, of reality, and others, quite independent of experience, containing nothing of sense appearance, and so apparently applicable to things on their own (*noumena*), but, what strengthens this conjecture, they contain a necessity of determination in themselves, which experience never attains.
- 42.3 The concept of cause implies a rule, according to which one state follows another necessarily, but experience can only show us that one state of things often or at most commonly, follows another, and therefore affords neither strict universality nor necessity.
- 43.1 Hence the categories seem to have a deeper meaning and import than can be exhausted by their empirical use, and so the understanding inadvertently adds for itself a much more extensive wing to the house of experience, a wing which it fills with nothing but creatures of thought, without ever observing that with its otherwise lawful concepts it has transgressed the bounds of their use.

34

- 44.1 Two important, and even indispensable, though very dry, investigations had therefore become indispensable in the *Critique of Pure Reason*, i.e., the two chapters “The Schematics of the Pure Concepts of Understanding”, and “The Basis of the Distinction of all Concepts of Understanding in general into Appearances and Noumena”. In the former it is shown, that the senses furnish not the pure concepts of the understanding *in concreto*, but only the schema for their use, and that the object conformable to it occurs only in experience (as the product of the understanding from materials of the sensibility).
- 44.2 In the latter it is shown that, although our pure concepts of the understanding and our principles are independent of experience, and despite the apparently greater sphere of their use, still nothing whatever can be thought by them beyond the field of experience because they can do nothing but merely determine the logical form of the judgment relatively to given perspectives. But as there is no perspective at all beyond the field of the sensibility, these pure concepts, as they cannot possibly be exhibited in concrete, are void of all meaning; consequently all these *noumena*, together with their complex,

the intelligible world,* are nothing but representation of a problem, of which the object in itself is possible, but the solution to which, from the nature of our understanding, is totally impossible. For our understanding is not a faculty of perspective, but rather only of the connection of given perspectives in experience. Experience therefore must contain all the objects for our concepts; but beyond it no concepts have any significance, as there is no perspective that might offer them a foundation.

* Kant's annotation

- 1.1 We speak of the "intelligible world," not (as the usual expression is) "intellectual world."
- 1.2 For recognitions are intellectual through the understanding, and refer to our world of sense also; but objects, to the extent they can be represented merely by the understanding, and to which none of our sensible perspectives can refer, are termed "intelligible."
- 1.3 But as some possible perspective must correspond to every object, we would have to assume an understanding that views things immediately. But we do not have the least notion anything like that, nor of the things of the understanding [*Verstandeswesen*] to which it should be applied.

35

- 45.1 The imagination may perhaps be forgiven for occasional vagaries, and for not keeping carefully within the limits of experience, since it gains life and vigor by such flights, and since it is always easier to moderate its boldness, than to stimulate its languor.
- 45.2 But the understanding, which ought to think, can never be forgiven for indulging in rhapsodies; for we depend upon it alone for assistance to set bounds, when necessary, to the rhapsodies of the imagination.
- 46.1 But the understanding begins its aberrations very innocently and modestly.
- 46.2 It first elucidates the elementary recognitions which inhere in it prior to all experience, but yet must always have their application in experience.

- 46.3 It gradually drops these limits, and what is there to prevent it, since it has quite freely derived its principles from itself? And then it proceeds first to newly imagined powers in nature, then to beings outside nature; in short to a world, for whose construction the materials cannot be wanting, because fertile fiction furnishes them abundantly, and though not confirmed, is never refuted, by experience.
- 46.4 This is the reason that young thinkers are so partial to metaphysics of the truly dogmatical kind, and often sacrifice to it their time and their talents, which might be otherwise better employed.
- 47.1 But there is no use in trying to moderate these fruitless endeavors of pure reason by all manner of cautions as to the difficulties of solving questions so occult, by complaints of the limits of our reason, and by degrading our assertions into mere conjectures.
- 47.2 For if their impossibility is not distinctly shown, and reason's recognition of its own essence does not become a true science, in which the field of its right use is distinguished, as it were, with mathematical certainty from that of its worthless and idle use, these fruitless efforts will never be abandoned for good.

How is Nature itself possible?

36

- 48.1 This question, which is the highest point that transcendental philosophy can ever reach, and to which, as its boundary and completion, it must proceed, properly contains two questions.
- 49.1 First: How is nature at all possible in the material sense, with respect to perspective, and considered as the totality of appearances; how are space, time, and that which fills both, i.e., the object of sensation, possible in general?

- 49.2 The answer is: by means of the constitution of our sensibility, according to which it is specifically affected by objects, which in themselves are unknown to it, and totally distinct from those appearances.
- 49.3 This answer is given in the *Critique* itself in the Transcendental Aesthetic, and in these *Prolegomena* by the solution of the first general problem.
- 50.1 Secondly: how is nature possible in the formal sense, as the totality of the rules under which all appearances must come in order to be thought as connected in experience?
- 50.2 The answer must be this: it is only possible by means of the constitution of our understanding, according to which all the above representations of the sensibility are necessarily referred to a consciousness, and by which the peculiar way in which we think, i.e., by rules, and hence experience also, are possible, but which must be clearly distinguished from an insight into the objects in themselves.
- 50.3 This answer is given in the *Critique* itself in the Transcendental Logic, and in these *Prolegomena*, in the course of the solution of the second main problem.
- 51.1 But how this peculiar property of our sensibility itself is possible, or that of our understanding and of the apperception which is necessarily its basis and that of all thinking, cannot be further analyzed or answered, because it is of them that we are in need for all our answers and for all our thinking about objects.
- 52.1 There are many laws of nature, which we can only know by means of experience. But conformity to law in the connection of appearances, i.e., in nature in general, we cannot discover by any experience, because experience itself requires laws which are a priori at the basis of its possibility.
- 53.1 The possibility of experience in general, therefore, is at the same time the universal law of nature, and the principles of the experience are the very laws of nature.

- 53.2 For we do not know nature but as the totality of appearances, i.e., of representations within us, and hence we can only derive the laws of its connection from the principles of their connection within us, i.e., from the conditions of their necessary union in consciousness, which constitutes the possibility of experience.
- 54.1 Even the main proposition expounded throughout this section, that universal laws of nature can be distinctly known a priori, leads naturally to the proposition that the highest legislation of nature must lie in ourselves, i.e., in our understanding, and that we must not seek the universal laws of nature in nature by means of experience, but conversely must seek nature, as to its universal conformity to law, in the conditions of the possibility of experience, which lie in our sensibility and in our understanding. For how were it otherwise possible to know a priori these laws, as they are not rules of analytical recognition, but truly synthetical extensions of it?
- 54.2 Such a necessary agreement of the principles of possible experience with the laws of the possibility of nature, can only proceed from one of two reasons: either these laws are drawn from nature by means of experience, or conversely nature is derived from the laws of the possibility of experience in general, and is quite the same as the mere universal conformity to law of the latter.
- 54.3 The former is self-contradictory, for the universal laws of nature can and must be known a priori, i.e., as independent of all experience, and be the foundation of all empirical use of the understanding. Hence the latter alternative alone remains.*

* Kant's annotation.

- 1.1 Crusius alone thought of a compromise, namely: a Spirit, who can neither err nor deceive, implanted these laws in us originally. But since false principles often intrude themselves--as indeed the very system of this man shows in not a few examples--we are involved in difficulties as to the use of such a principle in the absence of sure criteria to distinguish the genuine origin from the spurious, as we never can know with certainty what the spirit of truth or the father of lies may have instilled into us.

55.1 But we must distinguish the empirical laws of nature, which always presuppose particular perceptions, from the pure or universal laws of nature, which, without being based on particular perceptions, contain merely the conditions of their necessary union in experience. In relation to the latter, nature and possible experience are quite the same, and as the conformity to law here depends upon the necessary connection of appearances in experience (without which we cannot know any object whatsoever in the sensible world), consequently upon the original laws of the understanding, it seems at first strange, but is not the less certain, to say that the understanding does not derive its laws (a priori) from, but prescribes them to, nature.

37

56.1 We shall illustrate this seemingly bold proposition by an example, which will show that laws, which we discover in objects of sensuous perspective (especially when these laws are known as necessary), are commonly held by us to be such as have been placed there by the understanding, in spite of their being similar in all points to the laws of nature, which we ascribe to experience.

38

57.1 If we consider the properties of the circle, by which this figure combines so many arbitrary determinations of space in itself, at once in a universal rule, we cannot avoid attributing a constitution (*eine Natur*) to this geometrical thing.

57.2 Two straight lines, for example, which intersect one another and the circle, howsoever they may be drawn, are always divided so that the rectangle constructed with the segments of the one is equal to that constructed with the segments of the other.

57.3 The question now is: does this law lie in the circle or in the understanding, i.e., does this figure, independently of the understanding, contain in itself the basis of the law, or does the understanding, having constructed according to its concepts (according to the equality of the radii) the figure itself, introduce into it this law of the chords cutting one another in geometrical proportion?

- 57.4 When we follow the proofs of this law, we soon perceive that it can only be derived from the condition on which the understanding bases the construction of this figure, namely that of the equality of the radii.
- 57.5 But if we enlarge this concept to pursue further the unity of various properties of geometrical figures under common laws, and consider the circle as a conic section, which of course is subject to the same fundamental conditions of construction as other conic sections, we shall find that all the chords which intersect within the ellipse, parabola, and hyperbola, always intersect so that the rectangles of their segments are not indeed equal, but always bear a constant ratio to one another.
- 57.6 If we proceed still farther, to the fundamental laws of physical astronomy, we find a physical law of reciprocal attraction diffused over all material nature, the rule of which is: "that it decreases inversely as the square of the distance from each attracting point, i.e., as the spherical surfaces increase, over which this force spreads," which law seems to be necessarily inherent in the very nature of things, and hence is usually propounded as knowable a priori.
- 57.7 Simple as the sources of this law are, merely resting upon the relation of spherical surfaces of different radii, its consequences are so valuable with regard to the variety of their agreement and its regularity, that not only are all possible orbits of the celestial bodies conic sections, but such a relation of these orbits to each other results, that no other law of attraction, than that of the inverse square of the distance, can be imagined as fit for a cosmical system.
- 58.1 Here accordingly is a nature that rests upon laws which the understanding knows a priori, and chiefly from the universal principles of the determination of space.
- 58.2 Now I ask: do the laws of nature lie in space, and does the understanding learn them by merely endeavoring to find out the enormous wealth of meaning that lies in space; or do they inhere in the understanding and in the way in which it determines space according to the conditions of the synthetical unity in which its concepts are all centered?
- 58.3 Space is something so uniform and as to all particular properties so indeterminate, that we should certainly not seek a store of laws of nature in it.

- 58.4 On the other hand that which determines space to assume the form of a circle or the figures of a cone and a sphere, is the understanding, to the extent it contains the ground of the unity of their constructions.
- 58.5 The mere universal form of perspective, called space, must therefore be the substratum of all perspectives determinable to particular objects, and in it of course the condition of the possibility and of the variety of these perspectives lies. But the unity of the objects is entirely determined by the understanding, and on conditions which lie in its own nature; and thus the understanding is the origin of the universal order of nature, in that it comprehends all appearances under its own laws, and thereby first constructs, a priori, experience (as to its form), by means of which whatever is to be known only by experience, is necessarily subjected to its laws.
- 58.6 For we are not now concerned with the nature of things on their own, which is independent of the conditions both of our sensibility and our understanding, but with nature as an object of possible experience, and in this case the understanding, while it makes experience possible, insists in this way that the sensuous world is either not an object of experience at all, or must be nature [connection of all appearances via universal laws].

**Appendix To The Pure Science Of Nature - Concerning
The System Of The Categories.**

39

- 59.1 There can be nothing more desirable to a philosopher than to be able to derive the scattered manifold of the concepts or the principles, which had occurred to him in concrete use, from a principle a priori, and in this way to unite everything in one recognition.
- 59.2 He formerly only believed that those things, which remained after a certain abstraction, and seemed by comparison among one another to constitute a particular kind of recognitions, were completely collected; but this was only an aggregate. Now he knows that just so many, neither more nor less, can constitute the mode of recognition, and perceives the necessity of his division, which constitutes comprehension; and only now has he attained a system.

60.1 To search in our daily recognition for the concepts, which do not rest upon particular experience, and yet occur in every recognition of experience, where they, as it were, constitute the mere form of connection, presupposes neither greater reflection nor deeper insight than to detect in a language the rules of the actual use of words generally, and thus to collect elements for a grammar. In fact both researches are very nearly related, even though we are not able to give a reason why each language has just this and no other formal constitution, and still less why an exact number of such formal determinations in general are found in it.

61.1 Aristotle collected ten pure elementary concepts under the name of Categories.*

61.2 To these, which are also called predicaments, he found himself obliged afterwards to add five post-predicaments,** some of which however (prius, simul, and motus) are contained in the former; but this random collection must be considered (and commended) as a mere hint for future inquirers, not as a regularly developed Idea, and hence it has, in the present more advanced state of philosophy, been rejected as quite useless.

* Kant's annotation:

1.1 Substantia, Qualities, Quantitas, Relatio, Actio, Passio, Quando, Ubi, Situs, Habitus.

** Kant's annotation.

1.1 Oppositum, Prius, Simul, Motus, Habere.

62.1 After long reflection on the pure elements of human knowledge (those which contain nothing empirical), I finally succeeded in distinguishing with certainty and in separating the pure elementary notions of the sensibility (space and time) from those of the understanding.

62.2 Thus the 7th, 8th, and 9th Categories had to be excluded from the old list.

- 62.3 And the others were of no service to me because there was no principle [in them], on which the understanding could be investigated, measured in its completion, and all the functions, whence its pure concepts arise, determined exhaustively and with precision.
- 63.1 But in order to discover such a principle, I looked about for an act of the understanding which comprises all the rest, and is distinguished only by various modifications or phases, in reducing the manifold of representation to the unity of thinking in general. I found this act of the understanding to consist in judging.
- 63.2 Here then the labors of the logicians were ready at hand, though not yet quite free from defects, and with this help I was enabled to exhibit a complete table of the pure functions of the understanding which are, however, undetermined with regard to any object.
- 63.3 I finally referred these functions of judging to objects in general, or rather to the condition of determining judgments as objectively valid, and so there arose the pure concepts of the understanding, concerning which I could make certain that these, and only this number, constitute our whole recognition of things from pure understanding.
- 63.4 I was justified in calling them by their old name, Categories, while I reserved for myself the liberty of adding, under the title of "Predicables," a complete list of all the concepts deducible from them, by combinations whether among themselves, or with the pure form of the appearance, i.e., space or time, or with its matter, to the extent it is not yet empirically determined, i.e., the object of sensation in general, as soon as a system of transcendental philosophy should be completed with the construction of which I am engaged in the *Critique of Pure Reason* itself.
- 64.1 Now the essential point in this system of Categories, which distinguishes it from the old rhapsodical collection without any principle, and for which alone it deserves to be considered as philosophy, consists in this: that by means of it the true significance of the pure concepts of the understanding and the condition of their use could be precisely determined.

- 64.2 For here it became obvious that they are themselves nothing but logical functions, and as such do not produce the least concept of an object, but require some sensuous perspective as a basis. Hence they only serve to determine empirical judgments, which are otherwise undetermined and indifferent as regards all functions of judging, relatively to these functions, and in this way procuring them universal validity, and by means of them making judgments of experience in general possible.
- 65.1 Such an insight into the nature of the categories, which limits them at the same time to the mere use of experience, never occurred either to their first author, or to any of his successors. But without this insight (which immediately depends upon their derivation or deduction), they are quite useless and only a miserable list of names, without explanation or rule for their use.
- 65.2 Had the ancients ever conceived of such a notion, doubtless the whole study of the pure rational knowledge, which under the name of metaphysics has for centuries spoiled many a sound mind, would have reached us in a quite different shape, and would have enlightened the human understanding, instead of actually exhausting it in obscure and vain speculations, and thus rendering it unfit for true science.
- 66.1 This system of categories makes all treatment of every object of pure reason itself systematic, and affords a direction or clue as to how and through what points of inquiry every metaphysical consideration must proceed in order to be complete; for it exhausts all the possible moments of the understanding, among which every concept must be classed.
- 66.2 In like manner the table of principles has been formulated, the completeness of which we can only vouch for by the system of the categories. Even in the division of the concepts, which must go beyond the physical application of the understanding, it is always the very same clue, which, as it must always be determined a priori by the same fixed points of the human understanding, always forms a closed circle. There is no doubt that the object of a pure conception either of the understanding or of reason, to the extent it is to be estimated philosophically and on a priori principles, can in this way be completely known.

66.3 Hence I could not fail to make use of this clue with regard to one of the most abstract ontological divisions, i.e., the various distinctions of "the notions of something and of nothing," and to construct accordingly (CPR, P. 207) a regular and necessary table of their divisions.*

* Kant's annotation.

1.1 On the table of the categories many neat remarks may be made, for instance (1) that the third arises from the first and the second joined in one concept (2) that in those of Quantity and of Quality there is merely a progress from unity to totality or from something to nothing (for this purpose the categories of Quality must stand thus: reality, limitation, total negation), without *correlata* or *opposita*, whereas those of Relation and of Modality have them; (3) that, as in Logic categorical judgments are the basis of all others, so the category of Substance is the basis of all concepts of actual things; (4) that as Modality in the judgment is not a particular predicate, so by the modal concepts a determination is not superadded to things, etc., etc.

1.2 Such considerations are of great use.

1.3 If besides this we enumerate all the predicables, which we can find pretty completely in any good ontology (for example, Baumgarten's), and arrange them in classes under the categories, in which operation we must not neglect to add as complete a dissection of all these concepts as possible, there will then arise a merely analytical part of metaphysics, which does not contain a single synthetical proposition which might precede the second (the synthetical), and would by its precision and completeness be not only useful, but, in virtue of its system, to some extent even elegant.

67.1 And this system, like every other true one founded on a universal principle, shows its inestimable value in this, that it excludes all foreign concepts, which might otherwise intrude among the pure concepts of the understanding, and determines the place of every recognition.

67.2 Those concepts, which under the name of "concepts of reflection" have been likewise arranged in a table according to the clue of the categories, intrude, without having any privilege or title to be among the pure concepts of the understanding in ontology. They are concepts of connection, and thereby of the objects themselves, whereas the former are only concepts of a mere comparison of concepts already given, hence of quite another nature and use. By my systematic division they are saved from this confusion.

67.3 But the value of my special table of the categories will be still more obvious, when we separate the table of the transcendental concepts of reason from the concepts of the understanding. Since the latter are of quite another nature and origin, they must have quite another form than the former. This so necessary separation has never yet been made in any system of metaphysics for, as a rule, these rational concepts are mixed up with the categories, like children of one family, which confusion was unavoidable in the absence of a definite system of categories.

Third Part Of The Transcendental Problem: How Is Metaphysics In General Possible?

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- 1.1 Pure mathematics and pure science of nature had no occasion for such a deduction, as we have made of both, for their own safety and certainty. For the former rests upon its own evidence; and the latter (though sprung from pure sources of the understanding) upon experience and its thorough confirmation. Physics cannot altogether refuse and dispense with the testimony of the latter; because with all its certainty, it can never, as philosophy, rival mathematics.
- 1.2 Both sciences therefore stood in need of this inquiry, not for themselves, but for the sake of another science, that of metaphysics.
- 2.1 Metaphysics has to do not only with concepts of nature, which always find their application in experience, but also with pure rational concepts, which never can be given in any possible experience. Consequently the objective reality of these concepts, i.e., that they are not mere chimeras, and the truth or falsity of metaphysical assertions, cannot be discovered or confirmed by any experience. But this part of metaphysics is precisely what constitutes its essential end, to which the rest is only a means, and thus this science is in need of such a deduction for its own sake.
- 2.2 Hence the third question now proposed relates, as it were, to the root and essential difference of metaphysics, i.e., the occupation of reason with itself, and the supposed knowledge of objects arising immediately from this incubation of its own concepts, without requiring, or indeed being able to reach that knowledge through, experience.*

* Kant's annotation

- 1.1 If we can say that a science is actual at least in the Idea of all men as soon as it appears that the problems which lead to it are proposed to everybody by the nature of human reason, and that therefore many (though faulty) endeavors are unavoidably made in its behalf, then we are bound to say that metaphysics is subjectively (and indeed necessarily) actual, and therefore we justly ask, how is it (objectively) possible.

- 3.1 Without solving this problem reason never is justified.
- 3.2 The experiential use to which reason limits the pure understanding, does not fully satisfy the proper destination of the latter.
- 3.3 Every single experience is only a part of the whole sphere of its domain, but the absolute totality of all possible experience is itself not experience. Yet it is a necessary problem for reason, the mere representation of which requires concepts quite different from the categories, whose use is only immanent, or refers to experience, to the extent it can be given, in contrast to which the concepts of reason aim at the completeness, i.e., the collective unity of all possible experience, and in this way transcend every given experience. Thus they become transcendent.

- 4.1 As the understanding stands in need of categories for experience, reason contains in itself the source of Ideas, by which I mean necessary concepts, whose object cannot be given in any experience.
- 4.1 The latter are inherent in the nature of reason, as the former are in that of the understanding. While the former carry with them an illusion likely to mislead, the illusion of the latter is inevitable, though it certainly can be kept from misleading us.

- 5.1 Since all illusion consists in holding the subjective ground of our judgments to be objective, a self-knowledge of pure reason in its transcendent (effusive) use is the sole preservative from the aberrations into which reason falls when it mistakes its destination, and refers that to the object transcendently, which only regards its own subject and its guidance in all immanent use.

- 6.1 The distinction of Ideas, i.e., of pure concepts of reason, from categories, or pure concepts of the understanding, as recognitions of a quite distinct species, origin and use, is so important a point in founding a science which is to contain the system of all these a priori recognitions, that without this distinction metaphysics is absolutely impossible, or is at best a random, bungling

attempt to build a castle in the air without a knowledge of the materials or of their fitness for any purpose.

- 6.21 Had the *Critique of Pure Reason* done nothing but first point out this distinction, it had thereby contributed more to clear up our conception of, and to guide our inquiry in, the field of metaphysics than all the vain efforts which have hitherto been made to satisfy the transcendent problems of pure reason, without ever surmising that we were in quite another field than that of the understanding, and hence classing concepts of the understanding and those of reason together, as if they were of the same kind.

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- 7.1 All pure recognitions of the understanding have this feature, that their concepts present themselves in experience, and their principles can be confirmed by it; whereas the transcendent recognitions of reason cannot, either as Ideas, appear in experience, or as propositions ever be confirmed or refuted by it. Hence whatever errors may slip in unawares, can only be discovered by pure reason itself, a discovery of much difficulty because this very reason naturally becomes dialectical by means of its Ideas, and this unavoidable illusion cannot be limited by any objective and dogmatical researches into things, but by a subjective investigation of reason itself as a source of Ideas.

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- 8.1 In the *Critique of Pure Reason* it was always my greatest care to endeavor not only carefully to distinguish the several species of recognition, but to derive concepts belonging to each one of them from their common source. I did this in order that by knowing whence they originated, I might determine their use with safety, and also have the unanticipated, but invaluable, advantage of knowing the completeness of my enumeration, classification and specification of concepts a priori, and therefore according to principles.
- 8.2 Without this, metaphysics is mere rhapsody, in which no one knows whether he has enough, or whether and where something is still wanting. We can indeed have this advantage only in pure philosophy, but of this philosophy it constitutes the very essence.

- 9.1 As I had found the origin of the categories in the four logical functions of all the judgments of the understanding, it was quite natural to seek the origin of the Ideas in the three functions of the syllogisms of reason. For as soon as these pure concepts of reason (the transcendental Ideas) are given, they could hardly, except they be held innate, be found anywhere else than in the same activity of reason which, to the extent it regards mere form, constitutes the logical element of the syllogisms of reason; but, to the extent it represents judgments of the understanding with respect to the one or to the other form a priori, constitutes transcendental concepts of pure reason.
- 10.1 The formal distinction of syllogisms renders their division into categorical, hypothetical, and disjunctive necessary. The concepts of reason founded on them contained therefore, first, the Idea of the complete subject (the substantial); secondly, the Idea of the complete series of conditions; thirdly, the determination of all concepts in the Idea of a complete complex of that which is possible.*
- 10.2 The first Idea is psychological, the second cosmological, the third theological, and, as all three give occasion to Dialectics, yet each in its own way, the division of the whole Dialectics of pure reason into its Paralogism, its Antinomy, and its Ideal, was arranged accordingly. Through this deduction we may feel assured that all the claims of pure reason are completely represented, and that none can be wanting; because the faculty of reason itself, whence they all take their origin, is thereby completely surveyed.

* Kant's annotation.

- 1.1 In disjunctive judgments we consider all possibility as divided in respect to a particular concept.
- 1.2 By the ontological principle of the universal determination of a thing in general, I understand the principle that either the one or the other of all possible contradictory predicates must be assigned to any object. This is at the same time the principle of all disjunctive judgments, constituting the foundation of our conception of possibility, and in it the possibility of every object in general is considered as determined.
- 1.3 This may serve as a slight explanation of the above proposition: that the activity of reason in disjunctive syllogisms is formally the same as that by which it fash-

ions the Idea of a universal conception of all reality, containing in itself that which is positive in all contradictory predicates.

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- 11.1 In these general considerations it is also remarkable that the Ideas of reason, unlike the categories, are of no service to the use of our understanding in experience, but quite dispensable, and become even an impediment to the maxims of a rational recognition of nature. Yet in another aspect, still to be determined, they are necessary.
- 11.2 Whether the soul is or is not a simple substance, is of no consequence to us in the explanation of its appearances. For we cannot render the notion of a simple being intelligible by any possible experience that is sensuous or concrete. The notion is therefore quite void as regards all hoped-for insight into the cause of appearances, and cannot at all serve as a principle of the explanation of that which internal or external experience supplies.
- 11.3 So the cosmological Ideas of the beginning of the world or of its eternity (*a parte ante*) cannot be of any greater service to us for the explanation of any event in the world itself.
- 11.4 And finally we must, according to a proper maxim of the philosophy of nature, refrain from all explanations of the design of nature, drawn from the will of a Supreme Being; because this would not be natural philosophy, but an acknowledgment that we have come to the end of it.
- 11.5 The use of these Ideas, therefore, is quite different from that of those categories by which (and by the principles built upon which) experience itself first becomes possible.
- 11.6 But our laborious analytics of the understanding would be superfluous if we had nothing else in mind than the mere recognition of nature as it can be given in experience; for reason does its work, both in mathematics and in the science of nature, quite safely and well without any of this subtle deduction. Therefore our Critique of the Understanding combines with the Ideas of pure reason for a purpose which lies beyond the empirical use of the understanding; but this we have above declared to be in this aspect totally inadmissible, and without any object or meaning.

- 11.7 Yet there must be a harmony between that of the nature of reason and that of the understanding, and the former must contribute to the perfection of the latter, and cannot possibly upset it.
- 12.1 The solution of this question is as follows: Pure reason does not in its Ideas point to particular objects, which lie beyond the field of experience, but only requires completeness of the use of the understanding in the system of experience.
- 12.2 But this completeness can be a completeness of principles only, not of perspectives and of objects.
- 12.3 In order however to represent the Ideas definitely, reason conceives them after the fashion of the recognition of an object. This recognition is as far as these rules are concerned completely determined, but the object is only an Idea invented for the purpose of bringing the recognition of the understanding as near as possible to the completeness represented by that Idea.

Preparatory Remark to the Dialectics of Pure Reason.

45

- 13.1 We have above shown in Sections 33 and 34 that the purity of the categories from all admixture of sensuous determinations may mislead reason into extending their use, quite beyond all experience, to things on their own; though as these categories themselves find no perspective which can give them meaning or sense in concrete, they, as mere logical functions, can represent a thing in general, but not give by themselves alone a determinate concept of anything.
- 13.2 Such hyperbolic objects are distinguished by the appellation of noumena, or pure beings of the understanding (or better, beings of thought), such as, for example, "substance," but conceived without permanence in time, or "cause," but not acting in time, etc. Here predicates, that only serve to make the conformity-to-law of experience possible, are applied to these concepts, and yet they are deprived of all the conditions of perspective, on which alone experience is possible, and so these concepts lose all significance.

- 14.1 There is no danger, however, of the understanding spontaneously making an excursion so very wantonly beyond its own bounds into the field of the mere creatures of thought, without being impelled by foreign laws.
- 14.2 But when reason, which cannot be fully satisfied with any empirical use of the rules of the understanding, as being always conditioned, requires a completion of this chain of conditions, then the understanding is forced out of its sphere. And then it partly represents objects of experience in a series so extended that no experience can grasp, partly even (with a intention to complete the series) it seeks entirely beyond it noumena, to which it can attach that chain, and so, having at last escaped from the conditions of experience, make its attitude as it were final.
- 14.3 These are then the transcendental Ideas, which, though according to the true but hidden ends of the natural determination of our reason, they may aim not at extravagant concepts, but at an unbounded extension of their empirical use, yet seduce the understanding by an unavoidable illusion to a transcendent use, which, though deceitful, cannot be restrained within the bounds of experience by any resolution, but only by scientific instruction and with much difficulty.

I. The Psychological Ideas

(Critique of Pure Reason, Concerning the Paralogism of Pure Reason)

46

- 15.1 People have long since observed that in all substances the proper subject, that which remains after all the accidents (as predicates) are abstracted, consequently that which forms the substance of things remains unknown, and various complaints have been made concerning these limits to our knowledge.
- 15.2 But it will be well to consider that the human understanding is not to be blamed for its inability to know the substance of things, i.e., to determine it by itself, but rather for requiring to know it definitely as though it were a given object, even though it is a mere Idea.

- 15.3 Pure reason requires us to seek for every predicate of a thing its proper subject, and for this subject, which is itself necessarily nothing but a predicate, its subject, and so on indefinitely (or as far as we can reach).
- 15.4 But hence it follows, that we must not hold anything, at which we can arrive, to be an ultimate subject, and that substance itself never can be thought by our understanding, however deep we may penetrate, even if all nature were unveiled to us. For the specific nature of our understanding consists in thinking everything discursively, i.e., representing it by concepts, and so by mere predicates, to which therefore the absolute subject must always be wanting. Hence all the real properties, by which we know bodies, are mere accidents, not excepting impenetrability, which we can only represent to ourselves as the effect of a power of which the subject is unknown to us.
- 16.1 Now we appear to have this substance in the consciousness of ourselves (in the thinking subject), and indeed in an immediate perspective; for all the predicates of an internal sense refer to the ego, as a subject, and I cannot conceive of myself as the predicate of any other subject.
- 16.2 Hence completeness in the reference of the given concepts as predicates to a subject--not merely an Idea, but an object, i.e., the absolute subject itself--seems to be given in experience.
- 16.3 But this expectation is disappointed.
- 16.4 For the ego is not a concept,* but only the indication of the object of the internal sense, to the extent we know it by no further predicate. Consequently it cannot be in itself a predicate of any other thing; but just as little can it be a determinate concept of an absolute subject, but is, as in all other cases, only the reference of the internal appearances to their unknown subject.
- 16.5 Yet via a very natural misunderstanding this Idea (which, as a regulative principle, serves very well totally to destroy all materialistic explanations of the internal appearances of the soul) occasions a very specious argument which, from this supposed recognition of the substance of our thinking being, infers its nature, to the extent the knowledge of it falls quite apart from the complex of experience.

* Kant's annotation.

- 1.1 Were the representation of the apperception, the I, a concept, by which anything could be thought, it could be used as a predicate of other things or contain predicates in itself.
- 1.2 But it is nothing more than the feeling of an existence without the least definite conception and is only the representation of that to which all thinking stands in relation (*relationen accidentis*).

47

- 17.1 But though we may call this thinking self (the soul) substance, as being the ultimate subject of thinking which cannot be further represented as the predicate of another thing, it remains quite empty and without significance, if permanence, i.e., the quality which renders the concept of substances in experience fruitful, cannot be proved of it.
- 18.1 But permanence can never be proved of the concept of a substance, as a thing on its own, but for the purposes of experience only.
- 18.2 This is sufficiently shown by the first Analogy of Experience,¹⁰ and whoever will not yield to this proof may try for himself whether he can succeed in proving, from the concept of a subject which does not exist itself as the predicate of another thing, that its existence is thoroughly permanent, and that it cannot either in itself or by any natural cause originate or be annihilated.
- 18.3 These synthetical a priori propositions can never be proved in themselves, but only in reference to things as objects of possible experience.

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- 19.1 If from the concept of the soul as a substance, therefore, we would infer its permanence, this can hold good only regarding possible experience, and not as though the soul were a thing on its own and beyond all possible experience.

¹⁰ From the *CPR*.

- 19.2 But life is the subjective condition of all our possible experience, consequently we can only infer the permanence of the soul in life; for the death of the human is the end of all experience which concerns the soul as an object of experience, except the contrary be proved, which is the very question being considered.
- 19.3 The permanence of the soul can, therefore, only be proved during the life of the human (and no one cares for that), but not, as we desire to do, after death; and for this general reason, that the concept of substance, to the extent it is to be considered as necessarily combined with the concept of permanence, can be so combined only according to the principles of possible experience, and therefore for the purposes of experience only.*

* Kant's annotation.

- 1.1 It is indeed very remarkable how carelessly metaphysicians have always passed over the principle of the permanence of substances without ever attempting a proof of it. Doubtless this is because they found themselves abandoned by all proofs as soon as they began to deal with the concept of substance.
- 1.2 Common sense, which felt distinctly that without this presupposition no union of perceptions in experience is possible, supplied the want by a postulate. From experience itself it never could derive such a principle, partly because substances cannot be so traced in all their alterations and dissolutions, that the matter can always be found undiminished, partly because the principle contains necessity, which is always the sign of an a priori principle.
- 1.3 People then boldly applied this postulate to the concept of soul as a substance and concluded a necessary continuance of the soul after the death of the individual (especially as the simplicity of this substance, which is inferred from the indivisibility of consciousness, secured it from destruction by dissolution).
- 1.4 Had they found the genuine source of this principle, a discovery which requires deeper researches than they were ever inclined to make, they would have seen, that the law of the permanence of substances has place for the purposes of experience only, and hence can hold good of things to the extent they are to be known and conjoined with others in experience, but never independently of all possible experience, and consequently cannot hold good of the soul after death.

- 20.1 That there is something real without us which not only corresponds, but must correspond, to our external perceptions, can likewise be proved to be not a connection of things on their own, but for the sake of experience.
- 20.2 This means that there is something empirical, i.e., some appearance in space without us, that admits of a satisfactory proof; for we have nothing to do with objects other than those which belong to possible experience; because objects which cannot be given us in any experience, do not exist for us.
- 20.3 Empirically without me is that which appears in space, and space, together with all the appearances which it contains, belongs to the representations, whose connection according to laws of experience proves their objective truth, just as the connection of the appearances of the internal sense proves the actuality of my soul (as an object of the internal sense). By means of external experience I am conscious of the actuality of bodies, as external appearances in space. In the same manner and by means of the internal experience I am conscious of the existence of my soul in time, but this soul is only known as an object of the internal sense by appearances that constitute an internal state, and of which the essence in itself, which forms the basis of these appearances, is unknown.
- 20.4 Cartesian Idealism, therefore, does nothing but distinguish external experience from dreaming; and the conformity to law (as a criterion of its truth) of the former, from the irregularity and the false illusion of the latter.
- 20.5 In both it presupposes space and time as conditions of the existence of objects, and it only inquires whether the objects of the external senses, which we when awake put in space, are as actually to be found in it as the object of the internal sense, the soul, is in time, i.e., whether experience carries with it sure criteria to distinguish it from imagination.
- 20.6 This doubt, however, may easily be disposed of, and we always do so in common life, by investigating the connection of appearances in both space and time according to universal laws of experience, and when the representation of external things throughout agrees with that, we cannot doubt that they constitute truthful experience.
- 20.7 Material Idealism, in which appearances are considered as such only according to their connection in experience, may accordingly be very easily refuted; and it is just as sure an experience, that bodies exist without us (in

space) as that I myself exist according to the representation of the internal sense (in time); for the notion “without us”, only signifies existence in space.

- 20.8 However as the ego in the proposition, “I am,” means not only the object of internal perspective (in time), but the subject of consciousness, just as body means not only external perspective (in space), but the thing-in-itself, which is the basis of this appearance; even so the question, whether bodies (as appearances of the external sense) exist as bodies apart from my thoughts, may without any hesitation be denied in nature. But the question, whether I myself as a appearance of the internal sense (the soul according to empirical psychology) exist apart from my faculty of representation in time, is an exactly similar inquiry, and must likewise be answered in the negative.
- 20.9 Likewise in this manner is everything, when it is reduced to its true meaning, decided and certain.
- 20.10 The formal Idealism (which I have also called transcendental) actually abolishes the material, or Cartesian, Idealism.
- 20.11 For if space be nothing but a form of my sensibility, it is as a representation in me just as actual as I myself am, and nothing but the empirical truth of the representations in it remains for consideration.
- 20.12 But, if this is not the case, if space and the appearances in it are something existing apart from us, then all the criteria of experience beyond our perception can never prove the actuality of these objects apart from us us.

II. The Cosmological Ideas.

(Critique of Pure Reason, The Antinomy of Pure Reason)

50

- 21.1 This product of pure reason in its transcendent use is its most remarkable curiosity. It serves as a very powerful agent to rouse philosophy from its dogmatic slumber,¹¹ and to stimulate it to the arduous task of undertaking a critique of reason itself.

¹¹ On another occasion Kant has indicated that it was upon reading and reflecting upon the writings of David Hume that he was awakened from his “dogmatic slumber”.

- 22.1 I term this Idea cosmological, because it always takes its object only from the sensible world, and does not use any other [sources] than those whose object is given to sense. Consequently in this respect it remains in its native home, does not become transcendent, and to this extent therefore is not merely an Idea. On the other hand, to conceive of the soul as a simple substance, already means to conceive of such an object (the simple) as cannot be presented to the senses.
- 22.2 Yet the cosmological Idea extends the connection of the conditioned along with its condition (whether the connection is mathematical or dynamical) beyond the capacity of experience to keep up with it. With regard to this point it is then always an Idea, whose object never can be adequately given in any experience.

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- 23.1 In the first place, the use of a system of categories becomes here so obvious and unmistakable, that even if there were not several other proofs of it, this alone would sufficiently prove it indispensable in the system of pure reason.
- 23.2 There are only four such transcendent Ideas, as there are so many classes of categories. In each of these, however, they refer only to the absolute completeness of the series of the conditions for a given conditioned.
- 23.3 In analogy to these cosmological Ideas there are only four kinds of dialectical assertions of pure reason, which, as they are dialectical, prove in this way that to each of them, per equally apparent principles of pure reason, a contradictory assertion stands opposed. As all the metaphysical art of the most subtle distinction cannot prevent this opposition, it compels the philosopher to revert to the first sources of pure reason itself.
- 23.4 This Antinomy, not arbitrarily invented, but founded in the nature of human reason, and hence unavoidable and never ceasing, contains the following four theses together with their antitheses:

1.

Thesis: The World has, as to Time and Space, a Beginning (limit).

Antithesis: The World is, as to Time and Space, infinite.

2.

Thesis: Everything in the World consists of [elements that are] simple.

Antithesis: There is nothing simple, but everything is composite.

3.

Thesis: There are in the World Causes through Freedom.

Antithesis: There is no Liberty, but all is Nature.

4.

Thesis: In the Series of the World-Causes there is some necessary Being.

Antithesis: There is Nothing necessary in the World, but in this Series All is incidental.

52a

- 24.1 Here is the most singular appearance of human reason, no other instance of which can be shown in any other use.
- 24.2 If we, as is commonly done, represent to ourselves the appearances of the sensible world as things on their own, if we assume the principles of their combination as principles universally valid of things on their own and not merely of experience, as is usually, indeed without our critique, unavoidably done, there arises an unexpected conflict, which never can be removed in the common dogmatical way because the thesis, as well as the antithesis, can be shown by equally clear, evident, and irresistible proofs [and I pledge myself as to the correctness of all these proofs] and reason therefore perceives that it is divided with itself, a state at which the skeptic rejoices, but which must make the critical philosopher pause and feel ill at ease.

52b

- 25.1 We may blunder in various ways in metaphysics without any fear of being detected in falsehood.
- 25.2 For we never can be refuted by experience if we but avoid self-contradiction, which in synthetical, though purely fictitious, propositions may be done

whenever the concepts, which we connect, are mere Ideas, for they cannot be given (in their whole content) in experience.

- 25.3 For how can we make out by experience, whether the world is from eternity or had a beginning, whether matter is infinitely divisible or consists of simple parts? Such concept cannot be given in any experience, be it ever so extensive and, consequently, the falsehood either of the positive or the negative proposition cannot be discovered by this touchstone.
- 26.1 The only possible way in which reason could have revealed unintentionally its secret dialectics, falsely announced as dogmatics, would be when it were made to base an assertion upon a universally admitted principle, and to deduce the exact contrary with the greatest accuracy of inference from another which is equally granted.
- 26.2 This is actually here the case with regard to four natural Ideas of reason, from which arise four assertions on the one side, and just as many counter-assertions on the other, each consistently following from universally-acknowledged principles. Thus they reveal by the use of these principles the dialectical illusion of pure reason which would otherwise forever remain concealed.
- 27.1 Hence this is a decisive experiment, which must necessarily expose any error lying hidden in the assumptions of reason.*
- 27.2 Contradictory propositions cannot both be false, except the concept, which is the subject of both, is self-contradictory; for example, the propositions, "a square circle is round, and a square circle is not round," are both false.
- 27.3 For, as to the former it is false, that the circle is round, because it is quadrangular; and it is likewise false, that it is not round, i.e., angular, because it is a circle.
- 27.4 For the logical criterion of the impossibility of a concept consists in this, that if we presuppose it, two contradictory propositions both become false; consequently, as no middle between them is conceivable, nothing at all is thought by that concept.

* Kant's annotation.

- 1.1 I would be pleased, therefore, to have the critical reader devote his chief attention to this antinomy of pure reason, because nature itself seems to have established it with an intention of staggering reason in its daring pretensions, and to force it to a self-examination.
- 1.2 For every proof, which I have given, of the thesis as well as of the antithesis, I undertake to be responsible, and to show in this way the certainty of the inevitable antinomy of reason.
- 1.3 When the reader is brought by this curious appearance to fall back upon the proof of the presumption upon which it rests, he will feel obliged to investigate the ultimate foundation of all the recognition of pure reason with me more thoroughly.

52c

- 28.1 The first two antinomies [which I call mathematical, because they are concerned with the addition or division of the homogeneous] are founded on such a self-contradictory concept; and hence I explain how it happens, that both the Thesis and Antithesis of the two are false.
- 29.1 When I speak of objects in time and in space, it is not of things on their own, of which I know nothing, but of things in appearance, i.e., of experience, as the particular way of recognizing objects which alone is afforded to man.
- 29.2 I must not say of what I think in time or in space, that in itself, and independent of these my thoughts, it exists in space and in time; for in that case I should contradict myself; because space and time, together with the appearances in them, are nothing existing in themselves and outside of my representations, but are themselves only modes of representation, and it is palpably contradictory to say, that a mere mode of representation exists without our representation.
- 29.3 Objects of the senses, therefore, exist only in experience. But to give them a self-subsisting existence apart from experience or before it, is merely to represent to ourselves that experience actually exists apart from experience or before it.

- 30.1 Now if I inquire after the quantity of the world, as to space and time, it is equally impossible, as regards all my notions, to declare it infinite or to declare it finite.
- 30.2 For neither assertion can be contained in experience, because experience either of an infinite space, or of an infinite time elapsed, or again, of the boundary of the world by a void space, or by an antecedent void time, is impossible; for these are mere Ideas.
- 30.3 This quantity of the world, which is determined in either way, should therefore exist in the world itself apart from all experience.
- 30.4 This contradicts the notion of a world of sense, which is merely a complex of the appearances whose existence and connection occur only in our representations, i.e., in experience, since this latter is not an object in itself, but a mere mode of representation.
- 30.5 Hence it follows, that as the concept of an absolutely existing world of sense is self-contradictory, the solution of the problem concerning its quantity, whether attempted affirmatively or negatively, is always false.
- 31.1 The same holds good of the second antinomy, which relates to the division of appearances. For these are mere representations, and the parts exist merely in their representation, consequently in the division, or in a possible experience where they are given, and the division reaches only as far as this latter reaches.
- 31.2 To assume that an appearance, e.g., that of body, contains in itself before all experience all the parts which any possible experience can ever reach is to impute to a mere appearance, which can exist only in experience, an existence previous to experience. In other words, it would mean that mere representations exist before they can be found in our faculty of representation. Such an assertion is self-contradictory, as also every solution of our misunderstood problem, whether we maintain, that bodies in themselves consist of an infinite number of parts, or of a finite number of simple parts.

- 32.1 In the first class of antinomies (the mathematical) the falsehood of the assumption consists in representing in one concept something self-contradictory as if it were compatible, i.e., an appearance as an object in itself.
- 32.2 But as to the second class (the dynamical), the falsehood of the representation consists in representing as contradictory what is compatible; so that, as in the former case, the opposed assertions are both false, in this case, on the other hand, where they are opposed to one another by mere misunderstanding, they may both be true.
- 33.1 Any mathematical connection necessarily presupposes homogeneity of what is connected (in the concept of magnitude), while the dynamical makes no such presupposition.
- 33.2 When we have to deal with extended magnitudes, all the parts must be homogeneous with one another and with the whole; whereas, in the connection of cause and effect, homogeneity may indeed be found, but is not necessary; for the concept of causality (by means of which something is posited through something else quite different from it) does not in any case require it.
- 34.1 If the objects of the world of sense are taken for things on their own, and the above laws of nature for the laws of things on their own, the contradiction would be unavoidable.
- 34.2 So also, if the subject of freedom were, like other objects, represented as mere appearance, the contradiction would be just as unavoidable, for the same predicate would at once be affirmed and denied of the same kind of object in the same sense.
- 34.3 But if natural necessity is referred merely to appearances, and freedom merely to things on their own, no contradiction arises, if we at once assume, or admit, both kinds of causality, however difficult or impossible it may be to make the latter kind conceivable.

- 35.1 As appearance every effect is an event, or something that happens in time. According to the universal law of nature it must be preceded by a determination of the causality of its cause (a state), which follows according to a constant law.
- 35.2 But this determination of the cause as causality must likewise be something that takes place or happens. The cause must have begun to act, otherwise no succession between it and the effect could be conceived.
- 35.3 Otherwise the effect, as well as the causality of the cause, would have always existed.
- 35.4 Therefore the determination of the cause to act must also have originated among appearances, and must consequently, as well as its effect, be an event, which must again have its cause, and so on. Hence natural necessity must be the condition, on which effective causes are determined.
- 35.5 On the other hand if freedom is to be a property of certain causes of appearances, it must, as regards these, which are events, be a faculty of starting them spontaneously, i.e., without the causality of the cause itself, and hence without requiring any other ground to determine its start.
- 35.6 But then the cause, as to its causality, must not rank under time-determinations of its state, i.e., it cannot be an appearance, and must be considered a thing on its own, while its effects would be only appearances.* ³³
- 35.7 If without contradiction we can think of the beings of understanding as exercising such an influence on appearances, then natural necessity will attach to all connections of cause and effect in the sensuous world, though on the other hand, freedom can be granted to such cause, as is itself not an appearance (but the foundation of appearance). Nature therefore and freedom can without contradiction be attributed to the very same thing, but in different relations--on one side as a appearance, on the other as a thing on its own.

* Kant's annotation.

- 1.1 The Idea of freedom occurs only in the relation of the intellectual, as cause, to the appearance, as effect.
- 1.2 Hence we cannot attribute freedom to matter with regard to the incessant action by which it fills its space; though this action takes place from an internal principle.

- 1.3 We can likewise find no notion of freedom suitable to purely rational beings, for instance, to God, to the extent his action is immanent.
 - 1.4 For his action, though independent of external determining causes, is determined in his eternal reason, i.e., in the divine nature.
 - 1.5 It is only if something is to start an action, and so the effect occurs in the sequence of time, or in the world of sense (e.g., the beginning of the world), that we can put the question, whether the causality of the cause must in its turn have been started, or whether the cause can originate an effect without its causality itself beginning.
 - 1.6 In the former case the concept of this causality is a concept of natural necessity, in the latter, that of freedom.
 - 1.7 From this the reader will see that, as I explained freedom to be the faculty of starting an event spontaneously, I have exactly lit upon the notion which is the problem of metaphysics.
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- 36.1 We have within us a faculty, which not only stands in connection with its subjective determining grounds that are the natural causes of its actions, and is so far the faculty of a being that itself belongs to appearances, but is also referred to objective grounds, which are only Ideas, to the extent they can determine this faculty, a connection which is expressed by the word ought.
 - 36.2 This faculty is called reason and to the extent we consider a being (man) entirely according to this objectively determinable reason, he cannot be considered as a being of sense, but this property is that of a thing on its own, of which we cannot comprehend the possibility, i.e., how the ought (which however has never yet taken place) should determine its activity, and can become the cause of actions, whose effect is an appearance in the sensible world.
 - 36.3 Yet the causality of reason would be freedom with regard to the effects in the sensuous world, to the extent we can consider objective grounds, which are themselves Ideas, as their determinants.
 - 36.4 For its action in that case would not depend upon subjective conditions, consequently not upon those of time, and of course not upon the law of nature, which serves to determine them, because foundations of reason give to actions the rule universally, according to principles, without the influence of the circumstances of either time or place.

- 37.1 What I adduce here is merely meant as an example to make the thing intelligible, and does not necessarily belong to our problem, which must be decided from mere concepts, independently of the properties which we meet in the actual world.
- 38.1 Now I may say without contradiction that all the actions of rational beings, to the extent they are appearances (occurring in any experience), are subject to the necessity of nature; but the same actions, as regards merely the rational subject and its faculty of acting according to mere reason, are free.
- 38.2 For what is required for the necessity of nature?
- 38.3 Nothing more than the determinability of every event in the world of sense according to constant laws, i.e., a reference to cause in the appearance. In this process the thing on its own at its foundation and its causality remain unknown.
- 38.4 But I say that the law of nature remains, whether the rational being is the cause of the effects in the sensuous world from reason, i.e., through freedom, or whether it does not determine them on grounds of reason.
- 38.5 For, if the former is the case, the action is performed according to maxims, the effect of which as appearance is always conformable to constant laws. If the latter is the case, and the action is not performed per principles of reason, it is subject to the empirical laws of the sensibility, and in both cases the effects are connected according to constant laws. More than this we do not require or know concerning natural necessity.
- 38.6 But in the former case reason is the cause of these laws of nature, and therefore free; in the latter the effects follow according to mere natural laws of sensibility, because reason does not influence it. But reason itself is not determined on that account by the sensibility, and is therefore free in this case too.
- 38.7 Freedom is therefore no hindrance to natural law in appearance, neither does this law abrogate the freedom of the practical use of reason, which is connected with things on their own, as determining grounds.

- 39.1 Thus practical freedom, i.e., the freedom in which reason possesses causality according to objectively determining grounds, is rescued and yet natural necessity is not in the least curtailed with regard to the very same effects, as appearances.
- 39.2 The same remarks will serve to explain what we had to say concerning transcendental freedom and its compatibility with natural necessity (in the same subject, but not taken in the same reference).
- 39.3 For, as to this, every beginning of the action of a being from objective causes regarded as determining grounds, is always a first start, though the same action is in the series of appearances only a subordinate start, which must be preceded by a state of the cause, which determines it, and is itself determined in the same manner by another immediately preceding. Thus we are able, in rational beings, or in beings generally, to the extent their causality is determined in them as things on their own, to imagine a faculty of beginning from itself a series of states, without falling into contradiction with the laws of nature.
- 39.4 For the relation of the action to objective grounds of reason is not a time-relation; in this case that which determines the causality does not precede the action in time, because such determining grounds represent not a reference to objects of sense, e.g., to causes in the appearances, but to determining causes, as things on their own, which do not rank under conditions of time.
- 39.5 And in this way the action, with regard to the causality of reason, can be considered as a first start in respect to the series of appearances, and yet also as a merely subordinate beginning. We may therefore without contradiction consider it in the former aspect as free, but in the latter (in to the extent it is merely appearance) as subject to natural necessity.
- 40.1 As to the fourth antinomy, it is solved in the same way as the conflict of reason with itself in the third.
- 40.2 For, provided the cause in the appearance is distinguished from the cause of the appearance (to the extent it can be thought as a thing on its own), both propositions are perfectly reconcilable: the one, that there is nowhere in the

sensuous world a cause (according to similar laws of causality), whose existence is absolutely necessary; the other, that this world is nevertheless connected with a Necessary Being as its cause (but of another kind and according to another law). The incompatibility of these propositions rests entirely upon the mistake of extending what is valid merely of appearances to things on their own, and in general confusing both in one concept.

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- 41.1 This then is the proposition and this the solution of the whole antinomy, in which reason finds itself involved in the application of its principles to the sensible world. The former alone (the mere proposition) would be a considerable service in the cause of our knowledge of human reason, even though the solution might fail to fully satisfy the reader, who has here to combat a natural illusion, which has been but recently exposed to him, and which he had until now always regarded as genuine.
- 41.2 For one result at least is unavoidable. As it is quite impossible to prevent this conflict of reason with itself [as long as the objects of the sensible world are taken for things on their own, and not for mere appearances, which they are in fact] the reader is accordingly compelled to examine over again the deduction of all our a priori recognitions and the proof which I have given of my deduction in order to come to a decision on the question.
- 41.3 This is all I require at present; for when in this occupation he shall have thought himself deep enough into the nature of pure reason, those concepts by which alone the solution of the conflict of reason is possible, will become sufficiently familiar to him. Without this preparation I cannot expect an unreserved assent even from the most attentive reader.

III. The Theological Idea.

(Critique of Pure Reason, The Transcendental Ideals of Pure Reason)

55

- 42.1 The third transcendental Idea, which affords matter for the most important, but, if pursued only speculatively, transcendent and thereby dialectical use of reason, is the Ideal of pure reason. Reason in this case does not, as with the psychological and the cosmological Ideas, begin from experience, and err by

exaggerating its grounds in striving to attain, if possible, the absolute completeness of their series. It rather totally breaks with experience, and from mere concepts of what constitutes the absolute completeness of a thing in general, consequently by means of the Idea of a most perfect primal Being, it proceeds to determine the possibility and therefore the actuality of all other things. And so the mere presupposition of a Being, who is conceived not in the series of experience, yet for the purposes of experience--for the sake of comprehending its connection, order, and unity, i.e., the Idea [the notion of it]--is more easily distinguished from the concept of the understanding here, than in the former cases.

- 42.2 Hence we can easily expose the dialectical illusion which arises from our making the subjective conditions of our thinking objective conditions of objects themselves, and an hypothesis necessary for the satisfaction of our reason, a dogma. As the expositions of the *Critique* on the pretensions of transcendental theology are intelligible, clear, and decisive, I have nothing more to add on the subject.

General Remark on the Transcendental Ideas.

56

- 43.1 The objects, which are given us by experience, are in many respects incomprehensible, and many questions, to which the law of nature leads us, when carried beyond a certain point (though quite conformably to the laws of nature), admit of no answer, e.g., the question as to why substances attract one another.
- 43.2 But if we quit nature entirely, or in pursuing its combinations, exceed all possible experience and thus enter the realm of mere Ideas, we cannot then say that the object is incomprehensible, and that the nature of things proposes to us insoluble problems. For we are not then concerned with nature or in general with given objects, but with concepts, which have their origin merely in our reason, and with mere creations of thought; and all the problems that arise from our notions of them must be solved, because of course reason can and must give a full account of its own procedure.*

43.3 As the psychological, cosmological, and theological Ideas are nothing but pure concepts of reason, which cannot be given in any experience, the questions which reason asks us about them are put to us not by the objects, but by mere maxims of our reason for the sake of its own satisfaction. They must all be capable of satisfactory answers, which is done by showing that they are principles which bring our use of the understanding into thorough agreement, completeness, and synthetical unity, and that they so far hold good of experience only, but of experience as a whole.

43.4 Although an absolute whole of experience is impossible, the Idea of a whole of recognitions according to principles must impart to our knowledge a peculiar kind of unity, that of a system, without which it is nothing but piece-work, and cannot be used for proving the existence of a highest purpose (which can only be the general system of all purposes), I do not here refer only to the practical, but also to the highest purpose of the speculative use of reason.

* Kant's annotation.

1.1 Herr Platner in his *Aphorisms* acutely says (Sects. 728, 729), "If reason be a criterion, no concept, which is incomprehensible to human reason, can be possible.--

1.2 "Incomprehensibility has place in what is actual only.

1.3 "Here incomprehensibility arises from the insufficiency of the acquired Ideas."

1.4 It sounds paradoxical, but is otherwise not strange to say, that in nature there is much incomprehensible (e.g., the faculty of generation) but if we mount still higher, and even go beyond nature, everything again becomes comprehensible; for we then quit entirely the objects, which can be given us, and occupy ourselves merely with Ideas, in which occupation we can easily comprehend the law that reason prescribes by them to the understanding for its use in experience, because the law is the reason's own production.

44.1 The transcendental Ideas therefore express the peculiar application of reason as a principle of systematic unity in the use of the understanding.

44.2 Yet if we assume this unity of the mode of recognition to be attached to the object of recognition, if we regard that, which is merely regulative, to be constitutive, and if we persuade ourselves that by means of these Ideas we can enlarge our recognition transcendentally, or far beyond all possible experience, while it only serves to render experience within itself as nearly com-

plete as possible, i.e., to limit its progress by nothing that cannot belong to experience: we suffer from a mere misunderstanding in our estimate of the proper application of our reason and of its principles, and from a Dialectic, which both confuses the empirical use of reason, and also sets reason at variance with itself.

Conclusion: The Determination Of The Bounds Of Pure Reason.

57

- 1.1 Having adduced the clearest arguments, it would be absurd for us to hope that we can know more of any object than belongs to the possible experience of it, or lay claim to the least element of knowledge about anything not assumed to be an object of possible experience, which would determine it according to the constitution it has in itself. For how could we determine anything in this way, since time, space, and the categories, and still more all the concepts formed by empirical perspective or perception in the world of the senses, have and can have no other use than to make experience possible. And if this condition is omitted from the pure concepts of the understanding, they do not determine any object, and have no meaning whatsoever.

- 2.1 But on the other hand it would be a still greater absurdity if we conceded no things on their own, or set up our experience for the only possible mode of knowing things, our way of perspective them in space and in time as the only possible way, and our discursive understanding for the archetype of every possible understanding; in fact if we wished to have the principles of the possibility of experience considered universal conditions of things on their own.

- 3.1 Our principles, which limit the use of reason to possible experience, might in this way become transcendent, and the limits of our reason be set up as limits of the possibility of things on their own (as Hume's dialogues may illustrate), if a careful critique did not guard the bounds of our reason with respect to its empirical use, and set a limit to its pretensions.

- 3.2 Skepticism originally arose from metaphysics and its licentious dialectics.

- 3.3 At first it might, merely to favor the empirical use of reason, announce everything that transcends this use as worthless and deceitful; but eventually, when it was perceived that the very same principles that are used in experience, insensibly, and apparently with the same right, led still further than experience extends, then men began to doubt even the propositions of experience.

- 3.4 But here there is no danger; for common sense will doubtlessly always assert its rights. A certain confusion, however, arose in science which cannot determine how far reason is to be trusted, and why only so far and no further, and this confusion can only be cleared up and all future relapses obviated by a formal determination, on principle, of the boundary of the use of our reason.
- 4.1 We cannot indeed, beyond all possible experience, form a definite notion of what things on their own may be.
- 4.2 Yet we are not at liberty to abstain entirely from inquiring into them; for experience never satisfies reason fully, but in answering questions, refers us further and further back, and leaves us dissatisfied with regard to their complete solution. This anyone may gather from the Dialectics of pure reason, which, therefore, has its good subjective grounds.
- 4.3 Having acquired, as regards the nature of our soul, a clear conception of the subject, and having come to the conviction that its manifestations cannot be explained materialistically, who can refrain from asking what the soul really is and, if no concept of experience suffices for the purpose, from accounting for it by a concept of reason (that of a simple immaterial being), though we cannot by any means prove its objective reality?
- 4.4 Who can be satisfied with mere empirical knowledge in all the cosmological questions of the duration and of the quantity of the world, of freedom or of natural necessity, since every answer given on principles of experience begets a fresh question, which likewise requires its answer and thereby clearly shows the insufficiency of all physical modes of explanation to satisfy reason?
- 4.5 Finally, who does not see in the thoroughgoing contingency and dependence of all his thoughts and assumptions on mere principles of experience, the impossibility of stopping there? And who does not feel himself compelled, notwithstanding all interdictions against losing himself in transcendent Ideas, to seek rest and contentment beyond all the concepts which he can vindicate by experience, in the concept of a Being, the possibility of which we cannot conceive, but at the same time cannot be refuted, because it re-

lates to a mere being of the understanding, and without it reason must needs remain forever dissatisfied?

- 5.1 Bounds (in extended beings) always presuppose a space existing outside a certain definite place, and enclosing it. Limits do not require this, but are mere negations, which affect a quantity, to the extent it is not absolutely complete.
- 5.2 But our reason, as it were, sees in its surroundings a space for the recognition of things on their own, though we can never have definite notions of them, and are limited to appearances only.
- 6.1 As long as the recognition of reason is homogeneous, definite bounds to it are inconceivable.
- 6.2 In mathematics and in natural philosophy human reason admits of limits but not of bounds, i.e., that something indeed lies without it, at which it can never arrive, but not that it will at any point find completion in its internal progress.
- 6.3 The enlarging of our insights in mathematics, and the possibility of new discoveries, are infinite; and the same is the case with the discovery of new properties of nature, of new powers and laws, by continued experience and its rational combination.
- 6.4 But limits cannot be mistaken here, for mathematics refers to appearances only, and what cannot be an object of sensuous contemplation, such as the concepts of metaphysics and of morals, lies entirely without its sphere, and it can never lead to them; neither does it require them.
- 6.5 It is therefore not a continual progress and an approximation towards these sciences, and there is not, as it were, any point or line of contact.
- 6.6 Natural science will never reveal to us the internal constitution of things, which though not appearance, yet can serve as the ultimate ground of explaining appearance. Nor does that science require this for its physical explanations. Nay even if such grounds should be offered from other sources (for instance, the influence of immaterial beings), they must be rejected and

not used in the progress of its explanations. For these explanations must be grounded only upon that which, as an object of sense, can belong to experience and be brought into connection with our actual perceptions and empirical laws.

- 7.1 But metaphysics leads us towards boundaries in the dialectical attempts of pure reason (not undertaken arbitrarily or wantonly, but driven there by the nature of reason itself). And the transcendental Ideas, as they do not admit of evasion, and are never capable of realization, serve to point out to us actually not only the bounds of the pure use of reason, but also the way to determine them. Such is the end and the use of this natural predisposition of our reason, which has brought forth metaphysics as its favorite child, whose generation, like every other in the world, is not to be ascribed to blind chance, but to an original germ, wisely organized for great ends.
- 7.2 For metaphysics, in its fundamental features, perhaps more than any other science, is placed in us by nature itself, and cannot be considered the production of an arbitrary choice or a casual enlargement in the progress of experience from which it is quite disparate.
- 8.1 Reason with all its concepts and laws of the understanding, which suffice for empirical use, i.e., within the sensible world, finds in itself no satisfaction because ever-recurring questions deprive us of all hope of their complete solution.
- 8.2 The transcendental Ideas, which have that completion in mind, are such problems of reason.
- 8.3 But it sees clearly that the sensuous world cannot contain this completion, neither consequently can all the concepts which serve merely for understanding the world of sense, such as space and time, and whatever we have adduced under the name of pure concepts of the understanding.
- 8.4 The sensuous world is nothing but a chain of appearances connected according to universal laws. Thus it has no subsistence by itself, and it is not the thing on its own, and consequently must point to that which contains the basis of this experience, to beings which cannot be known merely as appearances, but as things on their own.

- 8.5 In the recognition of them alone reason can hope to satisfy its desire of completeness in proceeding from the conditioned to its conditions.
- 9.1 We have above (Sects. 33 & 34) indicated the limits of reason with regard to all recognition of mere creations of thought. Now since the transcendental Ideas have urged us to approach them, and thus have led us, as it were, to the spot where the occupied space (i.e., experience) touches the void (that of which we can know nothing, i.e., noumena), we can determine the bounds of pure reason. For in all bounds there is something positive (e.g., a surface is the boundary of corporeal space, and is therefore itself a space, a line is a space, which is the boundary of the surface, a point the boundary of the line, but yet always a place in space), whereas limits contain mere negations. The limits pointed out in those paragraphs are not enough after we have discovered that beyond them there still lies something (though we can never know what it is in itself).
- 9.2 For the question now is: what is the attitude of our reason in this connection of what we know with what we do not, and never shall, know?
- 9.3 This is an actual connection of a known thing with one quite unknown (and which will always remain so), and though what is unknown should not become the least more known--which we cannot even hope--yet the notion of this connection must be definite, and capable of being rendered distinct.
- 10.1 We must therefore accept an immaterial being, a world of understanding, and a Supreme Being (all mere noumena), because in them only, as things on their own, reason finds that completion and satisfaction, which it can never hope for in the derivation of appearances from their homogeneous grounds, and because these actually have reference to something distinct from them (and totally heterogeneous), as appearances always presuppose an object in itself, and therefore suggest its existence whether we can know more of it or not.
- 11.1 But as we can never know these beings of understanding as they are in themselves, i.e., definitely, yet must assume them as regards the sensible world, and connect them with it by reason, we are at least able to think this

connection by means of such concepts as express their relation to the world of sense.

- 11.2 Yet if we represent to ourselves a being of the understanding by nothing but pure concepts of the understanding, we then indeed represent nothing definite to ourselves, consequently our concept has no significance. But if we think it by properties borrowed from the sensuous world, it is no longer a being of understanding, but is conceived as an appearance, and belongs to the sensible world.
- 11.3 Let us take an instance from the notion of the Supreme Being.
- 12.1 Our deistic conception is an entirely pure concept of reason, but represents only a thing containing all realities, without being able to determine any one of them; because for that purpose an example must be taken from the world of sense, in which case we should have an object of sense only, and not something quite heterogeneous which can never be an object of sense.
- 12.2 Suppose I attribute to the Supreme Being understanding, for instance. I have no concept of an understanding other than my own, one that must receive its perspectives via the senses, and which is occupied in bringing them under rules of the unity of consciousness.
- 12.3 Then the elements of my concept would always lie in the appearance. Due to the insufficiency of the appearance, however, I should be necessitated to go beyond them to the concept of a being which neither depends upon appearance, nor is bound up with them as conditions of its determination.
- 12.4 But if I separate understanding from sensibility to obtain a pure understanding, then nothing remains but the mere form of thinking without perspective, by which form alone I can know nothing definite, and consequently no object.
- 12.5 In order to accomplish that I would have to conceive another understanding, such as would directly view its objects, but of which I have not the least notion; because the human understanding is discursive, and can recognize only by means of general concepts.

- 12.6 And the very same difficulties arise if we attribute a will to the Supreme Being; for we have this concept only by drawing it from our internal experience and, therefore, from our dependence for satisfaction upon objects whose existence we require. Accordingly the notion rests upon sensibility, which is absolutely incompatible with the pure concept of the Supreme Being.
- 13.1 Hume's objections to deism are weak and affect only the proofs, and not the deistic assertion itself.
- 13.2 But as regards theism, which depends on a stricter determination of the concept of the Supreme Being, which in deism is merely transcendent, his objections are very strong, and as this concept is formed, in certain (in fact in all common) cases it is irrefutable.
- 13.3 Hume always insists that by the mere concept of an original being, to which we apply only ontological predicates (eternity, omnipresence, omnipotence), we think nothing definite, and that properties which can yield a concept in concrete must be superadded. He insists further that it is not enough to say, it is a cause, but we must explain the nature of its causality, for example, that of an understanding and of a will. He then begins his attacks on the essential point itself, i.e., theism, for he had previously directed his battery only against the proofs of deism, an attack which is not very dangerous to it in its consequences.
- 13.4 All his dangerous arguments refer to anthropomorphism, which he holds to be inseparable from theism, and to make it absurd in itself. But if the former be abandoned, the latter must vanish with it, and nothing remains but deism, of which nothing can come, which is of no value, and which cannot serve as any foundation to religion or morals.
- 13.5 If this anthropomorphism were really unavoidable, no proofs whatever of the existence of a Supreme Being, even were they all granted, could determine for us the concept of this Being without involving us in contradictions.
- 14.1 If we connect with the command to avoid all transcendent judgments of pure reason, the command (which apparently conflicts with it) to proceed to concepts that lie beyond the field of its immanent (empirical) use, we discover that both can subsist together, but only at the boundary of all lawful use of

reason. For this boundary belongs as well to the field of experience as to that of the creations of thought, and we are thereby taught, as well, how these so remarkable Ideas serve merely for marking the bounds of human reason. On the one hand they give warning not to extend recognition of experience boundlessly, as if nothing but world remained for us to know; and yet, on the other hand, not to transgress the bounds of experience, and to think of judging about things beyond those bounds, as things on their own.

- 15.1 But we stop at this boundary if we limit our judgment merely to the relation which the world may have to a Being whose very concept lies beyond all the knowledge which we can attain within the world.
- 15.2 For we then do not attribute to the Supreme Being any of the properties in themselves, by which we represent objects of experience, and thereby avoid dogmatic anthropomorphism; but we attribute them to his relation to the world, and allow ourselves a symbolical anthropomorphism, which in fact concerns language only, and not the object itself.
- 16.1 If I say that we are compelled to consider the world, as if it were the work of a Supreme Understanding and Will, I really say nothing more than that a watch, a ship, a regiment, bears the same relation to the watchmaker, the shipbuilder, the commanding officer, as the world of sense (or whatever constitutes the substratum of this complex of appearances) does to the Unknown, which I do not in that way know as it is in itself, but as it is for me or in relation to the world, of which I am a part.

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- 17.1 Such a recognition is one of analogy, and does not signify (as is commonly understood) an imperfect similarity of two things, but a perfect similarity of relations between two quite dissimilar things.*
- 17.2 By means of this analogy, however, there remains a concept of the Supreme Being sufficiently determined for us, though we have left out everything that could determine it absolutely or in itself. For here we determine it as regards the world and as regards ourselves, and do we not require more than this.

17.3 The attacks which Hume makes upon those who would determine this concept absolutely, by taking the materials for doing so from themselves and the world, do not affect us; and he cannot object to us that we have nothing left if we give up the objective anthropomorphism of the concept of the Supreme Being.

* Kant's annotation.

1.1 There is, e.g., an analogy between the juridical relation of human actions and the mechanical relation of motive powers. I never can do anything to another man without giving him a right to do the same to me on the same conditions; just as no mass can act with its motive power on another mass without in that way occasioning the other to react equally against it.

1.2 Here right and motive power are quite dissimilar things, but in their relation there is complete similarity.

1.3 By means of such an analogy I can obtain a notion of the relation of things which are absolutely unknown to me. For instance, as the promotion of the welfare of children (= a) is to the love of parents (= b), so the welfare of the human species (= c) is to that unknown quantity which is in God (= x), which we call love; not as if it had the least similarity to any human inclination, but because we can suppose its relation to the world to be similar to that which things of the world bear one another.

1.4 But the concept of relation in this case is a mere category, i.e., the concept of cause, which has nothing to do with sensibility.

18.1 For let us assume at the outset (as Hume in his dialogues has Philo granting Cleanthes), as a necessary hypothesis, that the deistical concept of the First Being, in which this Being is thought by the mere ontological predicates of substance, of cause, etc. This must be done, because reason, actuated in the sensible world by mere conditions which are themselves always conditional, cannot otherwise have any satisfaction, and therefore it can be done without falling into anthropomorphism (which transfers predicates from the world of sense to a Being quite distinct from the world) because those predicates are mere categories, which, though they do not give a determinate concept of God, yet give a concept not limited to any conditions of sensibility. Thus nothing can prevent our predicating of this Being a causality through reason with regard to the world, and thus passing to theism, without being obliged

to attribute to God in himself this kind of reason, as a property inhering in him.

- 18.2 For as to the former, the only possible way of prosecuting the use of reason (as regards all possible experience, in complete harmony with itself) in the world of sense to the highest point, is to assume a supreme reason as a cause of all the connections in the world. Such a principle must be quite advantageous to reason and cannot hurt it anywhere in its application to nature.
- 18.3 As to the latter, reason is thereby not transferred as a property to the First Being in himself, but only to his relation to the world of sense, and so anthropomorphism is entirely avoided.
- 18.4 For nothing is considered here but the cause of the form of reason which is perceived everywhere in the world, and reason is attributed to the Supreme Being, to the extent it contains the ground of this form of reason in the world, but according to analogy only, i.e., to the extent this expression shows merely the relation, which the Supreme Cause, unknown to us, has to the world in order to determine everything in it conformably to reason in the highest degree.
- 18.5 We are thereby kept from using reason as an attribute for the purpose of conceiving God. Instead we conceive the world in such a manner as is necessary to have the greatest possible use of reason according to principle.
- 18.6 In this way we acknowledge that the Supreme Being is quite inscrutable and even unthinkable in any definite way as to what he is in himself. Accordingly we are kept, on the one hand, from making a transcendent use of the concepts which we have of reason as an efficient cause (by means of the will) in order to determine the Divine Nature by properties, which are only borrowed from human nature, and from losing ourselves in gross and extravagant notions, and on the other hand from deluging the contemplation of the world with hyperphysical modes of explanation according to our notions of human reason, which we transfer to God, and so losing for this contemplation its proper application, according to which it should be a rational study of mere nature, and not a presumptuous derivation of its appearances from a Supreme Reason.
- 18.7 The expression suited to our feeble notions is that we conceive the world as if it came, with respect to its existence and internal plan, from a Supreme

Reason, by which notion we know the constitution, which belongs to the world itself, yet without pretending to determine the nature of its cause in itself. On the other hand and likewise, we transfer the basis of this constitution (of the form of reason in the world) upon the relation of the Supreme Cause to the world, without finding the world sufficient by itself for that purpose.*

* Kant's annotation.

- 1.1 I may say that the causality of the Supreme Cause holds the same place with regard to the world that human reason does with regard to its works of art.
 - 1.1 Here the nature of the Supreme Cause itself remains unknown to me: I only compare its effects (the order of the world) which I know, and their conformity to reason, to the effects of human reason which I also know; and hence I term the former reason, without attributing to it on that account what I understand in man by this term, or attaching to it anything else known to me, as its property.
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- 19.1 Thus the difficulties which seem to oppose theism disappear by combining with Hume's own principle, "not to carry the use of reason dogmatically beyond the field of all possible experience", this other principle, which he quite overlooked: "not to consider the field of experience as one which bounds itself in the eye of our reason."
 - 19.2 The *Critique of Pure Reason* here points out the true mean between dogmatism, which Hume combats, and skepticism, which he would substitute for it--a mean which is not like other means that we find advisable to determine for ourselves mechanically, as it were (by adopting something from one side and something from the other), and by which nobody is taught a better way; but such a one as can be accurately determined on principles.

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- 20.1 At the beginning of this annotation I made use of the metaphor of a boundary, in order to establish the limits of reason in regard to its suitable use.
- 20.2 The world of sense contains merely appearances, which are not things on their own, but the understanding must assume these latter ones, i.e., noumena.

- 20.3 In our reason both are comprised, and the question is, How does reason proceed to set boundaries to the understanding as regards both these fields?
- 20.4 Experience, which contains all that belongs to the sensuous world, does not bound itself; it only proceeds in every case from the conditioned to some other equally conditioned object.
- 20.5 Its boundary must lie quite without it, and this field is that of the pure beings of the understanding.
- 20.6 But this field, to the extent the determination of the nature of these beings is concerned, is an empty space for us, and if dogmatically-determined concepts alone are in question, we cannot pass out of the field of possible experience.
- 20.7 But since a boundary itself is something positive, which belongs as well to that which lies within, as to the space that lies without, the given complex, it is still an actual positive recognition, which reason only acquires by enlarging itself to this boundary, yet without attempting to pass it; because it there finds itself in the presence of an empty space, in which it can conceive forms of things, but not things themselves.
- 20.8 But the setting of a boundary to the field of the understanding by something, which is otherwise unknown to it, is still a recognition which belongs to reason even at this standpoint, and by which it is neither confined within the sensible, nor straying beyond it, but only refers, as befits the knowledge of a boundary, to the relation between that which lies without it, and that which is contained within it.
- 21.1 Natural theology is such a concept at the boundary of human reason, being constrained to view beyond this boundary to the Idea of a Supreme Being (and, for practical purposes to that of an intelligible world also), not in order to determine anything relatively to this pure creation of the understanding, which lies beyond the world of sense, but in order to guide the use of reason within it according to principles of the greatest possible (theoretical as well as practical) unity. For this purpose we make use of the reference of the world of sense to an independent reason, as the cause of all its connections. Thereby we do not purely invent a being, but, as beyond the sensible world there must be something that can only be thought by the pure understanding,

we determine that something in this particular way, though only of course according to analogy.

- 22.1 And thus there remains our original proposition, which is the resume of the whole Critique: "that reason by all its a priori principles never teaches us anything more than objects of possible experience, and even of these nothing more than can be known in experience." But this limitation does not prevent reason from leading us to the objective boundary of experience, i.e., to the reference to something which is not itself an object of experience, but is the basis of all experience. However reason does not teach us anything concerning the thing on its own; it only instructs us as regards its own complete and highest use in the field of possible experience.
- 22.2 But this is all that can be reasonably desired in the present case, and with which we have cause to be satisfied.

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- 23.1 Thus we have fully exhibited metaphysics as it is actually given in the natural disposition of human reason, and in that which constitutes the essential end of its pursuit, according to its subjective possibility.
- 23.2 Though we have found that the merely natural use of such a disposition of our reason, if only no discipline arising from a scientific critique bridles and sets limits to it, involves us in transcendent dialectical syllogisms, which are either apparently or really conflicting, and this fallacious metaphysics is not only unnecessary with respect to the promotion of our knowledge of nature, but even disadvantageous to it. Nevertheless there remains a problem worthy of solution, namely of discovering the natural ends intended by this disposition to transcendent concepts in our reason, because everything that lies in nature must be originally intended for some useful purpose.
- 24.1 Such an inquiry is of a doubtful nature. And I acknowledge that what I can say about it is conjecture only, like every speculation about the first ends of nature. The question does not concern the objective validity of metaphysical judgments, but our natural predisposition to them, and therefore does not belong to the system of metaphysics but to anthropology.

- 25.1 When I compare all the transcendental Ideas, the totality of which constitutes the particular problem of natural pure reason, compelling it to quit the mere contemplation of nature, to transcend all possible experience, and in this endeavor to produce the thing (be it knowledge or fiction) called metaphysics, I think I perceive that the aim of this natural tendency is to free our notions from the fetters of experience and from the limits of the mere contemplation of nature to the extent at least to open to us a field containing mere objects for the pure understanding, which no sensibility can reach; and this not indeed for the purpose of speculatively occupying ourselves with them (for there we can find no ground to stand on), but because practical principles, which, without finding some such scope for their necessary expectation and hope, could not expand to the universality which reason unavoidably requires from a moral intention.
- 26.1 So I find that the Psychological Idea (however little it may reveal to me about the nature of the human soul, which is higher than all concepts of experience), shows the insufficiency of these concepts plainly enough, and by doing so deters me from materialism, the psychological notion of which is unfit for any explanation of nature, and besides confines reason in practical respects.
- 26.2 The Cosmological Ideas, by the obvious insufficiency of all possible recognition of nature to satisfy reason in its lawful inquiry, serve in the same manner to keep us from naturalism, which asserts nature to be sufficient for itself.
- 26.3 Finally, all natural necessity in the sensible world is conditional, as it always presupposes the dependence of things upon others; and unconditional necessity must be sought only in the unity of a cause different from the world of sense. But as the causality of this cause, in its turn, were it merely nature, could never render the existence of the contingent (as its consequent) comprehensible, reason frees itself by means of the Theological Idea from fatalism, (both as a blind natural necessity in the coherence of nature itself, without a first principle, and as a blind causality of this principle itself), and leads to the concept of a cause possessing freedom, or of a Supreme Intelligence.

- 26.4 Thus the transcendental Ideas serve, if not to instruct us positively, at least to destroy the rash assertions of Materialism, Naturalism, and Fatalism, and thus to afford scope for the moral Ideas beyond the field of speculation. These considerations, I should think, explain in some measure the natural predisposition of which I spoke.
- 27.1 The practical value, which a merely speculative science may have, lies outside the bounds of this science, and can therefore be considered as a scholium merely, and like all scholia does not form part of the science itself.
- 27.2 This application however surely lies within the bounds of philosophy, especially of philosophy drawn from the pure sources of reason, where its speculative use in metaphysics must necessarily be at unity with its practical use in morals.
- 27.3 Hence the unavoidable dialectics of pure reason, considered in metaphysics as a natural tendency, deserves to be explained not merely as an illusion which is to be removed, but also, if possible, as a natural provision with regard to its end, though this duty, a work of supererogation, cannot justly be assigned to metaphysics proper.
- 28.1 The solutions of these questions, which are treated in the chapter on the Regulative Use of the Ideas of Pure Reason,¹² should be considered a second scholium which, however, has a greater affinity with the subject of metaphysics.
- 28.2 For there certain rational principles are expounded which determine a priori the order of nature or rather of the understanding, which seeks nature's laws through experience.
- 28.3 They seem to be constitutive and legislative with regard to experience, though they spring from pure reason, which cannot be considered, like the understanding, as a principle of possible experience.
- 28.4 Now whether or not this harmony rests upon the fact that just as nature does not inhere in appearances or in their source (the sensibility) itself, but only

¹² *Critique Pure Reason*, II., chap. 3, section 7.

to the extent the latter is in relation to the understanding, as also a systematic unity in applying the understanding to bring about an entirety of all possible experience can only belong to the understanding when in relation to reason; and whether or not experience is in this way mediately subordinate to the legislation of reason, these may be discussed by those who desire to trace the nature of reason even beyond its use in metaphysics, into the general principles of a history of nature. I have represented this task as important, but not attempted its solution, in the book itself.*

* Kant's annotation.

- 1.1 Throughout in the Critique I never forgot the plan not to neglect anything, were it ever so recondite, that could render the inquiry into the nature of pure reason complete.
 - 1.2 Everybody may afterwards carry his researches as far as he pleases, when he has been merely shown what yet remains to be done. This is a duty which must reasonably be expected of him who has made it his business to survey the whole field, in order to consign it to others for future cultivation and allotment.
 - 1.3 And to this branch both of the scholia belong, which will hardly recommend themselves by their dryness to amateurs, and hence are added here for connoisseurs only.
- 29.1 And thus I conclude the analytical solution of the main question which I had proposed: How is metaphysics in general possible? by ascending from the data of its actual use in its consequences, to the grounds of its possibility.

Solution Of The General Question Of The Prolegomena: "How Is Metaphysics Possible As A Science?"

- 1.1 Metaphysics, as a natural disposition of reason, is actual, but if considered by itself alone (as the analytical solution of the third principal question showed), dialectical and illusory.
- 1.2 If we think of taking principles from it and in using them to follow the natural, but on that account not less false, illusion, we can never produce science, but only a vain dialectical art in which one school may outdo another, but none can ever acquire a just and lasting approbation.
- 2.1 In order that metaphysics as a science may be entitled to claim not mere fallacious plausibility, but insight and conviction, a Critique of Reason must itself exhibit the whole stock of a priori concepts, their division according to their various sources (Sensibility, Understanding, and Reason), together with a complete table of them, the analysis of all these concepts, with all their consequences, especially by means of the deduction of these concepts, the possibility of synthetical recognition a priori, the principles of its application and finally its bounds, all in a complete system.
- 2.2 Critique, therefore, and critique alone, contains in itself the whole well-proven and well-tested plan, and even all the means required to accomplish metaphysics, as a science. By other ways and means it is impossible.
- 2.3 The question here, therefore, is not so much how this performance is possible, as more how to set it going, and induce men of clear heads to quit their thus far perverted and fruitless cultivation for one that will not deceive, and how such a union for the common end may best be directed.
- 3.1 This much is certain, that whoever has once tasted Critique will be ever after disgusted with all dogmatical twaddle which were formerly put up with because his reason must have something, and could find nothing better for its support.

- 3.2 Critique stands in the same relation to the common metaphysics of the schools, as chemistry does to alchemy, or as astronomy to the astrology of the fortune-teller.
- 3.3 I pledge myself that nobody, who has thoroughly read and grasped the principles of the Critique even only in these Prolegomena, will ever return to that old and sophistical pseudo-science; but will rather with a certain delight look forward to metaphysics which is now indeed in his power, requiring no more preparatory discoveries, and now at last affording permanent satisfaction to reason.
- 3.4 For here is an advantage upon which, of all possible sciences, metaphysics alone can with certainty reckon: that it can be brought to such completion and fixity as to be incapable of further change or of any augmentation by new discoveries, because here reason has the sources of its knowledge in itself, not in objects and their perspective, by which latter its stock of knowledge cannot be further increased. When therefore it has exhibited the fundamental laws of its faculty completely and so definitely as to avoid all misunderstanding, there remains nothing for pure reason to know a priori, nay, there is even no basis to raise further questions.
- 3.5 The sure prospect of knowledge so definite and so compact has a peculiar charm, even though we should set aside all its advantages, of which I shall speak later.
- 4.1 All false art, all vain wisdom, lasts its time, but finally destroys itself, and its highest culture is also the epoch of its decay.
- 4.2 That this time is come for metaphysics appears from the state into which it has fallen among all learned nations, despite all the zeal with which other sciences of every kind are prosecuted.
- 4.3 The old arrangement of our university studies still preserves its shadow; now and then an Academy of Science tempts men by offering prizes to write essays on it, but it is no longer numbered among thorough sciences. And let any one judge for himself how a man of genius, if he were called a great metaphysician, would receive the compliment, which may be well-meant, but is scarcely envied by anybody.

- 5.1 Yet, though the period of the downfall of all dogmatical metaphysics has undoubtedly arrived, we are yet far from being able to say that the period of its regeneration is come by means of a thorough and complete Critique of Reason.
- 5.2 All transitions from a tendency to its contrary pass through the stage of indifference, and this moment is the most dangerous for an author, but, in my opinion, the most favorable for the science.
- 5.3 For when party spirit has died out by a total dissolution of former connections, minds are in the best state to listen to several proposals for an organization according to a new plan.
- 6.1 When I say that I hope these Prolegomena will excite investigation in the field of critique and afford a new and promising object to sustain the general spirit of philosophy, which seems on its speculative side to want sustenance, I can imagine beforehand that every one, whom the thorny paths of my Critique have tired and put out of humor, will ask me, upon what I found this hope.
- 6.2 My answer is: upon the irresistible law of necessity.
- 7.1 That the human mind will ever give up metaphysical researches is as little to be expected as that we should prefer to give up breathing altogether, to avoid inhaling impure air.
- 7.2 Hence there will always be metaphysics in the world; nay, every one, especially every man of reflection, will have it, and for want of a recognized standard, will shape it for himself after his own pattern.
- 7.3 What has hitherto been called metaphysics, cannot satisfy any critical mind, but to forego it entirely is impossible. Therefore a Critique of Pure Reason itself must now be attempted or, if one exists, investigated, and brought to the full test, because there is no other means of supplying this pressing want, which is something more than mere thirst for knowledge.

- 8.1 Ever since I have come to know critique, whenever I finish reading a book of metaphysical contents, which, by the preciseness of its notions, by variety, order, and an easy style, was not only entertaining but also helpful, I cannot help asking, "Has this author indeed advanced metaphysics a single step?"
- 8.2 The learned men, whose works have been useful to me in other respects and always contributed to the culture of my mental powers, will, I hope, forgive me for saying that I have never been able to find either their essays or my own less important ones (though self-love may recommend them to me) to have advanced the science of metaphysics in the least, and why not? Here is the very obvious reason: metaphysics did not then exist as a science, nor can it be gathered piecemeal, but its germ must be fully preformed in the Critique.
- 8.3 But in order to prevent all misconception, we must remember what has been already said, that by the analytical treatment of our concepts the understanding gains indeed a great deal, but the science (of metaphysics) is not in that way advanced in the least, because these dissections of concepts are nothing but the materials from which the intention is to construct our science.
- 8.4 Let the concepts of substance and of accident be ever so well dissected and determined, all this is very well as a preparation for some future use.
- 8.5 But if we cannot prove that in all which exists the substance endures, and only the accidents vary, our science is not the least advanced by all our analyzes.
- 8.6 Metaphysics has until now never been able to prove a priori either this proposition, or that of sufficient reason, still less any more complex theorem, such as belongs to psychology or cosmology, or indeed any synthetical proposition. By all its analyzing, therefore, nothing is affected, nothing obtained or forwarded, and the science, after all this hustle and bustle, still remains as it was in the days of Aristotle, though far better preparations would have been made for it than of old, if only the clue to synthetical recognitions had been discovered.
- 9.1 If any one thinks himself offended, he is at liberty to refute my charge by producing a single synthetical proposition belonging to metaphysics, which he would prove dogmatically a priori, for until he has actually performed

this feat, I shall not grant that he has truly advanced the science; even should this proposition be sufficiently confirmed by common experience.

- 9.2 No demand can be more moderate or more equitable, and in the (inevitably certain) event of its non-performance, no assertion more just, than that to this very day metaphysics has never existed as a science.

- 10.1 But there are two things which, in case the challenge be accepted, I must deprecate: first, trifling about probability and conjecture, which are as little suited to metaphysics as to geometry; and secondly, a decision by means of the magic wand of common sense, which does not convince every one, but which accommodates itself to personal peculiarities.

- 11.1 For as to the former, nothing can be more absurd than thinking of grounding our judgments in metaphysics [a philosophy from pure reason] upon probability and conjecture.
- 11.2 Everything that is to be known a priori is already announced as apodictically certain, and must therefore be proven in this way.
- 11.3 We might as well think of grounding geometry or arithmetic upon conjectures. As to the doctrine of probabilities in the latter, it does not contain probable, but perfectly certain, judgments concerning the degree of the probability of certain cases under given uniform conditions which, in the sum of all possible cases, infallibly happen according to the rule, though it is not sufficiently determined in respect to every single chance.
- 11.4 Conjectures (by means of induction and of analogy) can only be tolerated in an empirical science of nature, yet even there the possibility at least of what we assume must be quite certain.

- 12.1 The appeal to common sense is even more absurd, when concepts and principles are announced as valid, not to the extent they hold with regard to experience, but even beyond the conditions of experience.
- 12.2 For what is common sense?

- 12.3 It is normal good sense, so far it judges right.
- 12.4 But what is normal good sense?
- 12.5 It is the faculty of the knowledge and use of rules *in concreto*, as distinguished from the speculative understanding, which is a faculty of knowing rules *in abstracto*.
- 12.6 Common sense can hardly understand the rule, "that every event is determined by means of its cause," and thus can never comprehend it generally.
- 12.7 It demands, therefore, an example from experience, and when it hears that this rule means nothing but what it always thought when a pane of glass was broken or a kitchen-utensil went missing, it then understands the principle and grants it.
- 12.8 Common sense, therefore, is only of use to the extent it can see its rules (though they actually are a priori) confirmed by experience. Consequently to comprehend them a priori, or independently of experience, belongs to the speculative understanding, and lies quite beyond the horizon of common sense.
- 12.9 But the province of metaphysics is entirely confined to the latter kind of knowledge, and it is certainly a bad index of common sense to appeal to it as a witness, for it cannot here form any opinion whatsoever, and men look down upon it with contempt until they are in difficulties, and can find in their speculation neither in nor out.
- 13.1 It is a common subterfuge of those false friends of common sense (who occasionally prize it highly, but usually despise it) to say that there must surely be at all events some propositions which are immediately certain, and of which there is no occasion to give any proof, or even any account at all, because we otherwise could never stop inquiring into the grounds of our judgments. But if we except the principle of contradiction, which is not sufficient to show the truth of synthetical judgments, they can never adduce, in proof of this privilege, anything else indubitable which they can immediately ascribe to common sense except mathematical propositions, such as twice two make four, between two points there is but one straight line, etc.

- 13.2 But these judgments are radically different from those of metaphysics.
- 13.3 For in mathematics I myself by thinking can construct whatever I represent to myself as possible by a concept: I add to the first two the other two, one by one, and myself make the number four, or I draw in thought from one point to another all manner of lines, equal as well as unequal; yet I can draw one only, which is uniform in all its parts.
- 13.4 But with all my power of thinking I cannot extract from the concept of a thing the concept of something else, whose existence is necessarily connected with the former, except that I call in experience. And though my understanding furnishes me a priori (yet only in reference to possible experience) with the concept of such a connection (of causation), I cannot exhibit it, like the concepts of mathematics, by perspective them a priori, and so show its possibility a priori. This concept together with the principles of its application, if it shall hold a priori as is requisite in metaphysics, always requires a justification and deduction of its possibility, because we cannot otherwise know how far it holds good, and whether it can be used in experience only or beyond it also.
- 13.5 In metaphysics, therefore, as a speculative science of pure reason, we can never appeal to common sense, except when we are forced to surrender metaphysics and to renounce all purely speculative recognition, which must always be knowledge, and consequently when we forego metaphysics itself and its instruction for the sake of adopting a rational faith which alone may be possible for us, and sufficient to our wants, perhaps even more salutary than knowledge itself.
- 13.6 For in this case the attitude of the question is quite altered.
- 13.7 Metaphysics must be science, not only as a whole, but in all its parts; otherwise it is nothing because, as a speculation of pure reason, it finds a hold only on general opinions.
- 13.8 Beyond its field, however, probability and common sense may be used with advantage and justly, but on quite special principles, of which the importance always depends on the reference to practical life.

14.1 This is what I hold myself justified in requiring for the possibility of metaphysics as a science.

Appendix: What Can Be Done To Make Metaphysics Actual As A Science

- 1.1 Since all the ways heretofore taken have failed to attain the goal, and since without a preceding critique of pure reason it is not likely ever to be attained, the present essay now before the public has a fair title to an accurate and careful investigation, except it be thought more advisable to give up all pretensions to metaphysics, to which, if men but would consistently adhere to their purpose, no objection can be made.
- 1.2 If we take the course of things as it is, not as it ought to be, there are two sorts of judgments:

one a judgment which precedes investigation (in our case one in which the reader from his own metaphysics pronounces judgment on the Critique of Pure Reason which was intended to discuss the very possibility of metaphysics); and

the other a judgment subsequent to investigation.

In the latter the reader is enabled to waive for awhile the consequences of the critical researches that may be repugnant to his formerly adopted metaphysics, and first examines the grounds whence those consequences are derived.
- 1.3 If what common metaphysics propounds were demonstrably certain as are, for instance, the theorems of geometry, the former way of judging would hold good. For if the consequences of certain principles are repugnant to established truths, these principles are false and without further inquiry to be repudiated.
- 1.4 But if metaphysics does not possess a stock of indisputably certain (synthetical) propositions, and should it even be the case that there are a number of them which, though among the most specious, are by their consequences in mutual collision, and if no sure criterion of the truth of peculiarly metaphysical (synthetical) propositions is to be met with in it, then the former way of judging is not admissible, and instead the investigation of the principles of the critique must precede all judgments as to its value.

On A Specimen Of A Judgment Of The Critique Prior To Its Examination.

- 2.1 This judgment is to be found in the *Göttingischen gelehrten Anzeigen*, in the supplement to the third division, of January 19, 1782, pages 40 et seq.

- 3.1 When an author who is familiar with the subject of his work and endeavors to present his independent reflections in its elaboration, falls into the hands of a reviewer who in his turn, is keen enough to discern the points on which the worth or worthlessness of the book rests, who does not cling to words, but goes to the heart of the subject, sifting and testing more than the mere principles which the author takes as his point of departure, the severity of the judgment may indeed displease the latter, but the public does not care, as it gains thereby; and the author himself may be contented, as an opportunity of correcting or explaining his positions is afforded to him at an early date by the examination of a competent judge, in such a manner, that if he believes himself fundamentally right, he can remove in time any stone of offense that might hurt the success of his work.

- 4.1 I find myself, with my reviewer, in quite another position.

- 4.2 He seems not to see at all the real matter of the investigation with which (successfully or unsuccessfully) I have been occupied. It is either impatience at thinking out a lengthy work, or vexation at a threatened reform of a science in which he believed he had brought everything to perfection long ago, or, what I am unwilling to imagine, real narrow-mindedness, that prevents him from ever carrying his thoughts beyond his school-metaphysics. In short, he passes impatiently in review a long series of propositions, by which, without knowing their premises, we can think nothing, and then intersperses here and there his censure, the reason of which the reader understands just as little as the propositions against which it is directed; and hence this report can neither serve the public nor damage me in the judgment of experts. I should, for these reasons, have passed over this judgment altogether were it not that it may afford me occasion for some explanations which may in some cases save the readers of these *Prolegomena* from a misconception.

5.1 In order to take a position from which my reviewer could most easily set the whole work in a most unfavorable light, without venturing to trouble himself with any special investigation, he begins and ends by saying: "This work is a system of transcendent (or, as he translates it, of higher) Idealism."*

* Kant's annotation.

1.1 By no means "higher". High towers and metaphysically great men resembling them, around both of which there is commonly much wind, are not for me.

1.2 My place is the fruitful bathos, the bottom-land, of experience. And the word transcendental, the meaning of which is so often explained by me but not once grasped by my reviewer (so carelessly has he regarded everything), does not signify something passing beyond all experience, but something that indeed precedes it a priori, but which is intended simply to make recognition of experience possible.

1.3 If these concepts overstep experience, their employment is termed transcendent, a word which must be distinguished from transcendental, the latter being limited to the immanent use, i.e., to experience.

1.4 All misunderstandings of this kind have been sufficiently guarded against in the work itself, but my reviewer found his advantage in misunderstanding me.

6.1 A glance at this line soon showed me the sort of criticism that I had to expect, much as though the reviewer were one who had never seen or heard of geometry, having found a Euclid, and coming upon various figures in turning over its leaves, were to say, on being asked his opinion of it: "The work is a textbook of drawing; the author introduces a peculiar terminology, in order to give dark, incomprehensible directions, which in the end teach nothing more than what every one can effect by a fair natural accuracy of eye, etc."

7.1 In the meantime let us see what sort of an Idealism it is that goes through my whole work, although it does not by a long way constitute the soul of the system.

8.1 The dictum of all genuine Idealists from the Eleatic school to Bishop Berkeley, is contained in this formula: "All recognition through the senses and

experience is nothing but sheer illusion, and it is only in the Ideas of the pure understanding and reason that truth is found."

- 9.1 The principle that dominates and determines my Idealism throughout is, on the contrary, "All recognition of things merely from pure understanding or pure reason is nothing but sheer illusion, and only in experience is there truth."
- 10.1 But this is directly contrary to Idealism proper. How came I then to use this expression for quite an opposite purpose, and how came my reviewer to see it everywhere?
- 11.1 The solution of this difficulty rests on something that could have been very easily understood from the general bearing of the work, if the reviewer had only desired to do so.
- 11.2 Space and time, together with all that they contain, are not things nor qualities in themselves, but belong merely to the appearances of the latter. So far I am one in confession with the above Idealists.
- 11.3 But these, and amongst them more particularly Berkeley, regarded space as a mere empirical presentation that, like the appearance it contains, is only known to us by means of experience or perception, together with its determinations. I, on the contrary, prove in the first place that space (and also time, which Berkeley did not consider) and all its determinations a priori, can be known by us because space, no less than time, inheres in our sensibility as a pure form before all perception or experience and makes all perspective of the same, and therefore all its appearances, possible.
- 11.4 It follows from this, that as truth rests on universal and necessary laws as its criteria, experience, according to Berkeley, can have no criteria of truth, because its appearances (according to him) have nothing a priori at their foundation. And from this it follows that they are nothing but sheer illusion. Now with us, space and time (in conjunction with the pure concepts of the understanding) prescribe their law to all possible experience a priori, and at the same time afford the certain criterion for distinguishing truth from illusion in that.*

* Kant's annotation.

- 1.1 Idealism proper always has a mystical tendency, and can have no other. But mine is designed solely for the purpose of comprehending the possibility of our recognition a priori as to objects of experience, which is a problem never solved or even suggested before now.
 - 1.2 In this way all mystical Idealism falls to the ground, for (as may be seen already in Plato) it inferred from our recognitions a priori (even from those of geometry) another perspective different from that of the senses (namely, an intellectual perspective), because it never occurred to anyone that the senses themselves might view a priori.
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- 12.1 My so-called (properly called critical) Idealism is of quite a special character, in that it subverts the ordinary Idealism, and that by means of it every recognition a priori, even that of geometry, first receives objective reality, which, without my demonstrated Ideality of space and time, could not be maintained by the most zealous realists.
 - 12.2 This being the state of the case, I could have wished, in order to avoid all misunderstanding, to have named this conception of mine otherwise, but to alter it altogether was impossible.
 - 12.3 It may be permitted me however, in future, as has been above intimated, to term it the formal, or better still, the critical Idealism, to distinguish it from the dogmatic Idealism of Berkeley, and from the skeptical Idealism of Descartes.
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- 13.1 Beyond this, I find nothing further remarkable in the judgment of my book.
 - 13.2 The reviewer criticizes here and there, makes sweeping criticisms, a mode prudently chosen, since it does not betray one's own knowledge or ignorance; a single thorough criticism in detail, had it touched the main question, as is only fair, would have exposed, it may be my error, or it may be my reviewer's measure of insight into this species of research.
 - 13.3 It was, moreover, not a badly conceived plan, in order at once to take from readers (who are accustomed to form their conceptions of books from newspaper reports) the desire to read the book itself, to pour out in one breath a

number of passages in succession, torn from their connection, and their grounds of proof and explanations, and which must necessarily sound senseless, especially considering how antipathetic they are to all school-metaphysics; to exhaust the reader's patience ad nauseam, and then, after having made me acquainted with the sensible proposition that persistent illusion is truth, to conclude with the crude paternal moralization: to what end, then, the quarrel with accepted language, to what end, and whence, the Idealistic distinction?

- 13.4 A judgment which seeks all that is characteristic of my book, first supposed to be metaphysically heterodox, in a mere innovation of the nomenclature, proves clearly that my would-be judge has understood nothing of the subject, and in addition, has not understood himself.*

* Kant's annotation.

- 1.1 The reviewer often fights with his own shadow.
 - 1.2 When I oppose the truth of experience to dream, he never thinks that I am here speaking simply of the well-known *somnio objective sumto* of the Wolffian philosophy, which is merely formal, and with which the distinction between sleeping and waking is in no way concerned, and in a transcendental philosophy indeed can have no place.
 - 1.3 For the rest, he calls my deduction of the categories and table of the principles of the understanding: "common well-known axioms of logic and ontology, expressed in an Idealistic manner."
 - 1.4 The reader need only consult these Prolegomena upon this point, to convince himself that a more miserable and historically incorrect judgment could hardly be made.
- 14.1 My reviewer speaks like a man who is conscious of important and superior insight which he keeps hidden; for I am aware of nothing recent with respect to metaphysics that could justify his tone.
- 14.2 But he should not withhold his discoveries from the world, for there are doubtless many who, like myself, have not been able to find in all the fine things that have for long past been written in this department, anything that has advanced the science by so much as a finger-breadth.

- 14.3 We find indeed the giving a new point to definitions, the supplying of lame proofs with new crutches, the adding to the crazy-quilt of metaphysics fresh patches or changing its pattern; but all this is not what the world requires.
- 14.4 The world is tired of metaphysical assertions; it wants the possibility of the science, the sources from which certainty therein can be derived, and certain criteria by which it may distinguish the dialectical illusion of pure reason from truth.
- 14.5 To this the critic seems to possess a key, otherwise he would never have spoken out in such a high tone.
- 15.1 But I am inclined to suspect that no such requirement of the science has ever entered his thoughts, for in that case he would have directed his judgment to this point, and even a mistaken attempt in such an important matter, would have won his respect.
- 15.2 If that be the case, we are once more good friends.
- 15.3 He may penetrate as deeply as he likes into metaphysics, without any one hindering him. It is only with respect to what lies outside metaphysics, its sources, which are to be found in reason, that he cannot form a judgment.
- 15.4 That my suspicion is not without foundation is proved by the fact that he does not mention a word about the possibility of synthetic knowledge a priori, the special problem upon the solution of which the fate of metaphysics wholly rests, and upon which my Critique (as well as the present Prolegomena) entirely hinges.
- 15.5 The Idealism he encountered, and which he hung upon, was only taken up in the doctrine as the sole means of solving the above problem (although it received its confirmation on other grounds), and hence he must have shown either that the above problem does not possess the importance I attribute to it (even in these Prolegomena), or that by my conception of appearances, it is either not solved at all, or can be better solved in another way. But I do not find a word of this in the criticism.
- 15.6 The reviewer, then, understands nothing of my work, and possibly also nothing of the spirit and essential nature of metaphysics itself. And it is not, what

I would rather assume, the hurry of a man incensed at the labor of plodding through so many obstacles, that threw an unfavorable shadow over the work lying before him, and made its fundamental features unrecognizable.

- 16.1 There is a good deal to be done before a learned journal, it matters not with what care its writers may be selected, can maintain its otherwise well-merited reputation, in the field of metaphysics as elsewhere.
- 16.2 Other sciences and branches of knowledge have their standard.
- 16.3 Mathematics has it in itself; history and theology, in profane or sacred books; natural science and the art of medicine in mathematics and experience; jurisprudence in law books; and even matters of taste in the examples of the ancients.
- 16.4 But for the judgment of what we call metaphysics, the standard has yet to be found. I have made an attempt to determine it, as well as its use.
- 16.5 What is to be done, then, until it be found, when works of this kind have to be judged of?
- 16.6 If they are of a dogmatic character, one may do what one likes. No one will play the master over others here for long, before some one else appears to deal with him in the same manner.
- 16.7 If, however, they are critical in their character, not indeed with reference to other works, but to reason itself, so that the standard of judgment cannot be assumed but has first of all to be sought for, then, though objection and blame may indeed be permitted, yet a certain degree of leniency is indispensable, since the need is common to us all, and the lack of the necessary insight makes the high-handed attitude of judge unwarranted.
- 17.1 In order, however, to connect my defense with the interest of the philosophical commonwealth, I propose a test, which must be decisive as to the mode, whereby all metaphysical investigations may be directed to their common purpose.

- 17.2 This is nothing more than what formerly mathematicians have done, in establishing the advantage of their methods by competition. I challenge my critic to demonstrate, as is only just, on a priori grounds, in his way, a single really metaphysical principle asserted by him. Being metaphysical it must be synthetic and known a priori from conceptions, but it may also be any one of the most indispensable principles, as for instance, the principle of the persistence of substance, or of the necessary determination of events in the world by their causes.
- 17.3 If he cannot do this (silence however is confession), he must admit that as metaphysics without apodictic certainty of propositions of this kind is nothing at all, its possibility or impossibility must be established before all things in a critique of the pure reason. Thus he is bound either to confess that my principles in the Critique are correct, or he must prove their invalidity.
- 17.4 But as I can already foresee, that, confidently as he has hitherto relied on the certainty of his principles, when it comes to a strict test he will not find a single one in the whole range of metaphysics he can bring forward, I will concede to him an advantageous condition, which can only be expected in such a competition, and will relieve him of the *onus probandi* by laying it on myself.
- 18.1 He finds in these Prolegomena and in my Critique (chapter on the "Theses and Antitheses Antinomies") eight propositions, of which two and two contradict one another, but each of which necessarily belongs to metaphysics, by which it must either be accepted or rejected (although there is not one that has not in this time been held by some philosopher).
- 18.2 Now he has the liberty of selecting any one of these eight propositions at his pleasure, and accepting it without any proof, of which I shall make him a present, but only one (for waste of time will be just as little serviceable to him as to me), and then of attacking my proof of the opposite proposition.
- 18.3 If I can save this one, and at the same time show, that according to principles which every dogmatic metaphysics must necessarily recognize, the opposite of the proposition adopted by him can be just as clearly proved, it will be established in this way that metaphysics has an hereditary failing, not to be explained, much less set aside, until we ascend to its birthplace, pure reason

itself, and thus my Critique must either be accepted or a better one take its place. It must at least be studied, which is the only thing I now require.

- 18.4 If, on the other hand, I cannot save my demonstration, then a synthetic proposition a priori from dogmatic principles is to be reckoned to the score of my opponent, and then I will also deem my impeachment of ordinary metaphysics as unjust, and pledge myself to recognize his stricture on my Critique as justified (although this would not be the consequence by a long shot).
- 18.5 To this end it would be necessary, it seems to me, that he should step out of his *incognito*. Otherwise I do not see how it could be avoided, that instead of dealing with one, I should be honored by several problems coming from anonymous and unqualified opponents.

**Proposals As To An Investigation Of The Critique
Upon Which A Judgment May Follow.**

- 19.1 I feel obliged to the honored public even for the silence with which it favored my Critique for a long time, for this proves at least a postponement of judgment, and some supposition that in a work, abandoning all beaten tracks and striking out on a new path, in which one cannot at once perhaps so easily find one's way, something may perchance lie, from which an important but at present dead branch of human knowledge may derive new life and productiveness. Hence there may have originated a solicitude for the as yet tender shoot, lest it be destroyed by a hasty judgment.
- 19.2 A test of a judgment, delayed for the above reasons, is now before my eye in the *Gothaischen gelehrten Zeitung*, the thoroughness of which every reader will himself perceive, from the clear and unperverted presentation of a fragment of one of the first principles of my work, without taking into consideration my own suspicious praise.
- 20.1 And now I propose, since an extensive structure cannot be judged of as a whole from a hurried glance, to test it piece by piece from its foundations, where the present Prolegomena may fitly be used as a general outline with which the work itself may occasionally be compared.

- 20.2 This notion, if it were founded on nothing more than my conceit of importance such as vanity commonly attributes to one's own productions, would be immodest and would deserve to be repudiated with disgust.
- 20.3 But now the interests of speculative philosophy have arrived at the point of total extinction, while human reason hangs upon them with inextinguishable affection, and only after having been ceaselessly deceived does it vainly attempt to change this into indifference.
- 21.1 In our thinking age it is reasonable to suppose that many deserving men would use any good opportunity of working for the common interest of the increasingly enlightened reason, if there were only some hope of attaining the goal.
- 21.2 Mathematics, natural science, laws, arts, even morality, etc., do not completely fill the soul; there is always a space remaining, reserved for pure and speculative reason, the vacuity of which prompts us to seek in vagaries, buffooneries, and mysticism for what seems to be employment and entertainment, but what actually is mere pastime; in order to deaden the troublesome voice of reason, which in accordance with its nature requires something that can satisfy it, and not merely subserve other ends or the interests of our inclinations.
- 21.3 A consideration, therefore, which is concerned only with reason as it exists for it itself, has, as I may reasonably suppose, a great fascination for every one who has attempted to extend his conceptions accordingly, and I may even say a greater fascination than any other theoretical branch of knowledge, for which he would not willingly exchange it, because here all other recognitions, and even purposes, must meet and unite themselves in a whole.⁴⁵
- 22.1 I offer, therefore, these Prolegomena as a sketch and textbook for this investigation, and not the work itself. Although I am even now perfectly satisfied with the latter as far as concerns the contents, order, and mode of presentation, and the care that I have expended in weighing and testing every sentence before writing it down (for it has taken me years to satisfy myself fully, not only with regard to the whole but in some cases even as to the

sources of one particular proposition); yet I am not quite satisfied with my exposition in some sections of the doctrine of elements, as for instance in the deduction of the concepts of the understanding, or in that on the paralogisms of pure reason, because a certain diffuseness takes away from their clearness, and in place of them, what is here said in the Prolegomena respecting these sections, may be made the basis of the test.

- 23.1 It is the boast of the Germans that where steady and continuous industry are requisite, they can carry things farther than other nations.
- 23.2 If this opinion be well founded, an opportunity and an undertaking, presents itself, the successful issue of which we can scarcely doubt, and in which all thinking men can equally take part, though they have thus far been unsuccessful in accomplishing it and in thus confirming the good opinion just cited. But this is chiefly because the science in question is of so peculiar a kind, that it can be at once brought to completion and to that enduring state that it will never be able to be brought in the least degree farther or increased by later discoveries, or even changed (leaving here out of account adornment by greater clearness in some places, or additional uses), and this is an advantage no other science has or can have, because there is none so fully isolated and independent of others, and which is concerned with the faculty of recognition pure and simple.
- 23.3 And the present moment seems, moreover, not to be unfavorable to my expectation, for just now, in Germany, no one seems to know wherewith to occupy himself, apart from the so-called useful sciences, so as to pursue not mere play, but a business possessing an enduring purpose.
- 24.1 To discover the means how the endeavors of the learned may be united in such a purpose, I must leave to others.
- 24.2 In the meantime, it is my intention to persuade anyone merely to follow my propositions, or even to flatter me with the hope that he will do so; but attacks, repetitions, limitations, or confirmation, completion, and extension, as the case may be, should be appended. If the matter be but investigated from its foundation, it cannot fail that a system, albeit not my own, shall be erected that shall be a possession for future generations for which they may have reason to be grateful.

- 25.1 It would lead us too far here to show what kind of metaphysics may be expected, when only the principles of criticism have been perfected, and how, because the old false feathers have been pulled out, she need by no means appear poor and reduced to an insignificant figure, but may be in other respects richly and respectably adorned. But other and great uses which would result from such a reform, strike one immediately.
- 25.2 The ordinary metaphysics had its uses, in that it sought out the elementary conceptions of the pure understanding in order to make them clear through analysis, and definite by explanation.
- 25.3 In this way it was a training for reason, in whatever direction it might be turned. But this was all the good it did.
- 25.4 Service was subsequently effaced when it favored conceit by venturesome assertions, sophistry by subtle distinctions and adornment, and shallowness by the ease with which it decided the most difficult problems by means of a little scholastic wisdom, which is only the more seductive the more it has the choice, on the one hand, of taking something from the language of science, and on the other from that of popular discourse, thus being everything to everybody, but in reality nothing at all.
- 25.5 By criticism, however, a standard is given to our judgment, whereby knowledge may be distinguished from pseudo-science with certainty, and firmly founded, being brought into full operation in metaphysics; a mode of thought which by degrees extends its beneficial influence over every other use of reason, at once infusing into it the true philosophical spirit.
- 25.6 But the service also that metaphysics performs for theology, by making it independent of the judgment of dogmatic speculation, thereby assuring it completely against the attacks of all such opponents, is certainly not to be valued lightly.
- 25.7 For ordinary metaphysics, although it promised the latter much advantage, could not keep this promise, and moreover, by summoning speculative dogmatics to its assistance, did nothing but arm enemies against itself.

25.8 Mysticism, which can prosper in a rationalistic age only when it hides itself behind a system of academic metaphysics, under the protection of which it may venture to rave with a semblance of rationality, is driven from this, its last hiding-place, by critical philosophy. And last, but not least, it cannot be otherwise than important to a teacher of metaphysics to be able to say with universal assent, that what he expounds is science, and that thereby genuine services will be rendered to the commonweal.