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16 ... To beg and assume the original question is 64h a species of failure to demonstrate the problem proposed; but this happens in many ways. A man may not reason syllegistically at all, or he 30 may argue from premisses which are less known or equally unknown, or he may establish the antecedent by means of its consequents; for demonstration proceeds from what is more certain and is prior. Now begging the question is none of these: but since we get to know some things naturally through themselves, and other things by means of something else (the first principles through themselves, what is subordinate to them 35 through something else), whenever a man tries to prove what is not self-evident by means of itself, then he begs the original question. This may be done by assuming what is in question at once; it is also possible to make a transition to other things which would naturally be proved 40 through the thesis proposed, and demonstrate it through them, e.g. if A should be proved through B, and B through C, though it was natural that C 65a should be proved through 4: for it turns out that those who reason thus are proving A by means of itself. This is what those persons do who suppose that they are constructing parallel straight lines. for they fail to see that they are assuming facts which it is impossible to demonstrate unless the parallels exist. it turns out that those who reason thus merely say a particular thing is, if it is: in this way everything will be self-evident. But that is impossible.

If then it is uncertain whether A lelongs to C, and also whether a belongs to B, and if one should assume that 4 does belong to B, it is not yet clear whether he begs the original question, but it is evident that he is not demonstrating: for what is as uncertain as the question to be answered cannot be a principle of a demonstration. If however B is so related to C that they are identical, or if they are plainly convertible, 15 or the one belongs to the other, the original question is begged. For one might equally well prove that a belongs to B through those terms if they are convertible. But if they are not convertible, it is the fact that they are not that prevents such a demonstration, not the method of demonstrating. But if one were to make the con-

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version, then he would be doing what we have described and effecting a reciprocal proof with three propositions.

Similarly if he should assume that B belongs to C, this being as uncertain as the question whether A belongs to C, the question is not yet begged, but no demonstration is made. If however A and B are identical either because they are convertible or because A follows B, then the question is begged for the same reason as before. For we have explained the meaning of begging the question, viz. proving that which is not self-evident by means of itself.

If then begging the question is proving what is not self-evident by means of itself, in other words failing to prove when the failure is due to the thesis to be proved and the premiss through which it is proved being equally uncertain, either because predicates which are identical belong to the same subject, or because the same predicate belongs to subjects which are identical, the question may be begged in the middle and third figures in both ways, though, if the syllogism is affirmative, only in the third and first figures. If the syllogism is negative, the question is begged when identical predicates are denied of the same subject; and both premisses do not beg the question indifferently (in a similar way the question may be begged in the middle figure), because the terms in negative syllogisms are not convertible. In scientific demonstrations the question is begged when the terms are really related in the manner described, in dialectical arguments when they are according to common opinion so related.

17 The objection that 'this is not the reason why the result is false', which we frequently make in argument, is made primarily in the case of a reductio ad impossibile, to rebut the proposition which was being proved by the reduction. For unless a man has contradicted this proposition he will not say, 'False cause', but urge that something false has been assumed in the earlier parts of the argument; nor will he use the formula in the case of an ostensive proof; for here what one denies is not assumed as a premiss. Further when anything is refuted ostensively by the terms ABC, it cannot be objected that the

syllogism does not depend on the assumption laid down. For we use the expression 'false cause', when the syllogism is concluded in spite of the refutation of this position; but that is not possible in ostensive proofs: since if an assumption is refuted, a syllogism can no longer be drawn in reference to it. It is clear then that the expression 'false cause' can only be 10 used in the case of a reductio ad impossibile, and when the original hypothesis is so related to the impossible conclusion, that the conclusion results indifferently whether the hypothesis is made or not. The most obvious case of the irrelevance of an assumption to a conclusion which is false is when a syllogism drawn from middle terms to an impossible conclusion is independent of the hypothesis, as we have ex-15 plained in the Topics. 1 For to put that which is not the cause as the cause, is just this: e.g. if a man, wishing to prove that the diagonal of the square is incommensurate with the side, should try to prove Zeno's theorem that motion is impossible, and so establish a reductio ad impossibile: for Zeno's false theorem has no 20 connexion at all with the original assumption. Another case is where the impossible conclusion is connected with the hypothesis, but does not result from it. This may happen whether one traces the connexion upwards or downwards, e.g. if it is laid down that A belongs to B, B 25 to C, and C to D, and it should be false that B belongs to D: for if we eliminated 4 and assumed all the same that B belongs to C and C to D, the false conclusion would not depend on the original hypothesis. Or again trace the connexion 30 upwards; e.g. suppose that 4 belongs to B, E to A, and F to E, it being false that F belongs to In this way too the impossible conclusion would result, though the original hypothesis were eliminated. But the impossible conclusion ought to be connected with the original terms: in this way it will depend on the hypothesis, e.g. when one traces the connexion downwards, the impos-35 sible conclusion must be connected with that term which is predicate in the hypothesis: for if it is impossible that a should belong to D, the false conclusion will no longer result after If one traces the con-A has been eliminated.

¹ Soph. El. 167b 21-36.

nexion upwards, the impossible conclusion must be connected with that term which is subject in the hypothesis: for if it is impossible that F should belong to B, the impossible conclusion will disappear if B is eliminated. Similarly when the syllogisms are negative.

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It is clear then that when the impossibility is not related to the original terms, the false conclusion does not result on account of the assumption. Or perhaps even so it may sometimes be independent. For if it were laid down that A belongs not to B but to K, and that K belongs 5 to C and C to D, the impossible conclusion would still stand. Similarly if one takes the terms in an ascending series. Consequently since the impossibility results whether the first assumption is suppressed or not, it would appear to be independent of that assumption. Or perhaps we ought not to understand the statement that the false conclusion results independently of the assumption, in the sense that if something else were supposed the impossibility would result; 10 but rather we mean that when the first assumption is eliminated, the same impossibility results through the remaining premisses; since it is not perhaps absurd that the same false result should follow from several hypotheses, e.g. that parallels meet, both on the assumption that the interior angle is greater than the exterior and on the assumption that a triangle contains more than two right angles. 15

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18 4 false argument depends on the first false statement in it. Every syllogism is made out of two or more premisses. If then the false conclusion is drawn from two premisses, one or both of them must be false: for (as was proved 2) a false syllogism cannot be drawn from true premisses. But if the premisses are more than two, e.g. if C is established through 4 and B, and these through D, E, F, and G, one of these higher propositions must be false, and on this the argument depends: for 4 and B are inferred by means of D, E, F, and G. Therefore the conclusion and the error results from one of them.

19 In order to avoid having a syllogism drawn against us, we must take care, whenever an oppon-

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^{2 53}b 11-25.

ent asks us to admit the reason without the conclusions, not to grant him the same term twice over in his premisses, since we know that a syllogism cannot be drawn without a middle term, and that term which is stated more than once is the middle. How we ought to watch the middle in reference to each conclusion, is evident from our knowing what kind of thesis is proved in each figure. This will not escape us since we know how we are maintaining the argument.

That which we urge men to beware of in their admissions, they ought in attack to try to con-This will be possible first, if, instead ceal. of drawing the conclusions of preliminary syl-35 logisms, they take the necessary premisses and leave the conclusions in the dark; secondly if instead of inviting assent to propositions which are closely connected they take as far as possible those that are not connected by middle terms. For example suppose that 4 is to be inferred to be true of F; B, C, D, and E being middle terms. One ought then to ask whether A belongs to B, and next whether D belongs to E, instead of asking whether B belongs 40 to C; after that he may ask whether E belongs to 66b C, and so on. And if the syllogism is drawn through one middle term, he ought to begin with that: in this way he will most likely deceive his opponent.

20 Since we know when a syllogism can be formed and how its temms must be related, it is clear when refutation will be possible and when impossible. 4 refutation is possible whether everything is conceded, or the answers alternate (one, I mean, being affirmative, the other negative). For as has been shown a syllogism is possible whether the terms are related in affirmative propositions or one proposition is affirmative, the other negative: consequently, if what is laid down is contrary to the conclusion, a refutation must take place: for a refutation is a syllogism which establishes the contradictory. But if nothing is conceded, a refutation is impossible: for no syllogism is possible (as we saw 3; when all the terms are negative: therefore no refutation is possible. For if a refutation were possible, a syllogism must be possible;

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3 41b 6.

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although if a syllogism is possible it does not follow that a refutation is possible. Similarly refutation is not possible if nothing is conceded universally: since the fields of refutation and syllogism are defined in the same way.

21. It sometimes happens that just as we are deceived in the arrangement of the temas, 4 20 error may arise in our thought about them, e.g. if it is possible that the same predicate should belong to more than one subject immediately, but although knowing the one, a wan may forget the other and think the opposite true. Suppose that A belongs to B and to C in virtue of their nature, and that B and C belong to all D in the same way. If then a man thinks that a belongs to all B, and B to D, but 4 to no C, and C to all D, he will both know and not know the same 25 thing 5 in respect of the same thing. 6 Again if a man were to make a mistake about the members of a single series; e.g. suppose 4 belongs to B, B to C, and C to D, but some one thinks that A belongs to all B, but to no C: he will both knew that a belongs to D, and think that 30 it does not. Does he then maintain after this simply that what he knows, he does not think? For he knows in a way that A belongs to C through B, since the part is included in the whole; so that what he knows in a way, this he maintains he does not think at all: but that is impossible.

In the former case, where the middle term does not belong to the same series, it is not possible to think both the premisses with reference to each of the two middle terms: e.g. that A belongs to all B, but to no C, and both B and C belong to all D. For it turns out that the first premiss of the one syllogism is either wholly or partially contrary to the first premiss of the other. For if he thinks that 4 belongs to everything to which B belongs, and he knows that B belongs to D, then he knows that A belongs to D. Consequently if again he thinks that 4 telongs to nothing to which C belongs, he thinks that 4 does not belong to some of that to which B belongs; but if he thinks that 4 belongs to everything to which B belongs, and again thinks that

⁴ Cf. i. 32 ff. 5 i.e. subject.

⁶ i.e. attribute.

a does not belong to some of that to which B belongs, these beliefs are wholly or partially 5 contrary. In this way then it is not possible to think; but nothing prevents a man thinking one premiss of each syllogism or both premisses of one of the two syllogisms: e.g. A belongs to all B, and B to D, and again A belongs to no C. An error of this kind is similar to the error into which we fall concerning particulars: e.g. if A belongs to all B, and B to all C, A will 10 belong to all C. If then a man knows that a belongs to everything to which B belongs, he knows that a belongs to C. But nothing prevents his being ignorant that C exists; e.g. let 4 stand for two right angles, B for triangle, C for a particular diagram of a triangle. A man might think that C did not exist, though he knew 15 that every triangle contains two right angles; consequently he will know and not know the same thing at the same time. For the expression 'to know that every triangle has its angles equal to two right angles' is ambiguous, meaning to have the knowledge either of the universal or of the particulars. Thus then he knows that C contains two right angles with a knowledge of the universal, but not with a knowledge of the particu-20 lars; consequently his knowledge will not be contrary to his ignorance. The argument in the Meno 7 that learning is recollection may be criticized in a similar way. For it never happens that a man starts with a foreknowledge of the particular, but along with the process of being led to see the general principle he receives a knowledge of the particulars, by an act (as it were) of recognition. For we know some things directly; e.g. that the angles are equal to two 25 right angles, if we know that the figure is a Similarly in all other cases. trangle.

By a knowledge of the universal then we see the particulars, but we do not know them by the kind of knowledge which is proper to them; consequently it is possible that we may make mistakes about them, but not that we should have the knowledge and error that are contrary to one another: rather we have the knowledge of the universal but make a mistake in apprehending the particular. Similarly in the cases stated above. 8 The error in respect of the middle term is not

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^{8 66}b 20-6, 26-30. 7 81.

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contrary to the knowledge obtained through the syllogism, nor is the thought in respect of one middle term contrary to that in respect of the other. Nothing prevents a man who knows both that A belongs to the whole of B, and that B again belongs to C, thinking that a does not belong to C, e.g. knowing that every mule is sterile and that this is a male, and thinking that this animal is with foal: for he does not know that 4 belongs to C, unless he considers the two propositions together. So it is evident that if he knows the one and does not know the other. he will fall into error. And this is the relation of knowledge of the universal to knowledge of the particular. For we know no sensible thing, once it has passed beyond the range of our senses, even if we happen to have perceived it, except by means of the universal and the possession of the knowledge which is proper to the particular, but without the actual exercise of that knowledge. For to know is used in three senses: it may mean either to have knowledge of the universal or to have knowledge proper to the matter in hand or to exercise such knowledge: consequently three kinds of error also are possible. Nothing then prevents a man both knowing and being mistaken about the same thing, provided that his knowledge and his error are not contrary. And this happens also to the man whose knowledge is limited to each of the premisses and who has not previously considered the particular question. For when he thinks that the rule is with foal he has not the knowledge in the sense of its actual exercise, nor on the other hand has his thought caused an error contrary to his knowledge: for the error contrary to the knowledge of the universal would be a syllogism.

But he who thinks the essence of good is the essence of bad will think the same thing to be the essence of good and the essence of bad. Let A stand for the essence of good and B for the essence of aad, and again C for the essence of good. Since then he thinks B and C identical, he will think that C is B, and similarly that B is 4, consequently that C is 4. For just as we saw that if B is true of all of which C is true, and A is true of all of which B is true, A is true of C, similarly with the word 'think'.

Similarly also with the word 'is'; for we saw that if C is the same as B, and B as 4, C is the same as A. Similarly therefore with 'opine'. Perhaps then this 9 is necessary if a man will grant the first point. 10 But presumably that is false, that any one could suppose the essence of good to be the essence of bad, save incidentally. For it is possible to think this in many different ways. But we must consider this matter better. 11

22 Whenever the extremes are convertible it is necessary that the middle should be convertible with both. For if 4 belongs to C through B, then if 4 and C are convertible and C belongs to everything to which a belongs, B is convertible 30 with 4, and B belongs to everything to which 4 belongs, through C as middle, and C is convertible with B through A as middle. Similarly if the conclusion is negative, e.g. if B belongs to C, but 4 does not belong to B, neither will A belong to C. If then B is convertible with 4, C will be convertible with A. Suppose B does 35 not belong to 4: neither then will C: for ex hypothesi B belonged to all C. And if C is convertible with B, B is convertible also with A: for C is said of that of all of which B is said. if C is convertible in relation to A and to B, B abso is sonvertible in relation to A. For C belongs to that to which B belongs but C does 68a not belong to that to which A belongs. And this alone starts from the conclusion; the preceding moods do not do so as in the affirmative syllogism. Again if a and B are convertible, and similarly C and D, and if A or C must belong to anything whatever, then B and D will be such that one or other belongs to anything whatever. For since B belongs, and since 4 or C belongs to everything, but not together, it is clear that B or D belongs to everything, but not together. For example if that which is uncreated is incorruptible and that which is incorruptible is uncreated, it is necessary that what is created should be corruptible and what is corruptible should have

9 That a man should think the same thing to be the essence of good and to be the essence of bad. 10 That the essence of good is the essence of bad. 11 The reference may be to Met. iv. (F.

been created. For two syllogisms have been put together. Again if 4 or B belongs to everything and if C or D belongs to everything, but they cannot belong together, then when A and C are convertible B and D are convertible. For if B does not belong to something to which D belongs, it is clear that A belongs to it. But if A then C: for they are convertible. Therefore C 15 and D belong together. But this is impossible. Then A belongs to the whole of B and to C and is affirmed of nothing else, and B also belongs to all C, it is necessary that 4 and B should be convertible: for since 4 is said of B and C only, 20 and B is affirmed both of itself and of C, it is clear that B will be said of everything of which A is said, except A itself. Again when A and B belong to the whole of C, and C is convertible with B, it is necessary that 4 should belong to all B: for since 4 belongs to all C, and C to B by conversion, A will belong to all B. When, of two opposites 4 and B, 4 is preferable 25

to B. and similarly D is preferable to C, then if 4 and C together are preferable to B and D together. A must be preferable to D. For A is an object of desire to the same extent as b is an object of aversion, since they are opposites: and C is similarly related to D, since they also are opposites. If then 4 is an object of desire 30 to the same extent as D, B is an object of aversion to the same extent as C (since each is to the same extent as each --- the one an object of aversion, the other an object of desire). Therefore both 4 and C together, and B and D together, will be equally objects of desire or aversion. But since 4 and C are preferable to B and D, 4 cannot be equally uesirable with D; for then B 35 along with D would be equally desirable with 4 along with C. But if D is preferable to 4, then B must be less an object of aversion than C: for the less is opposed to the less. But the greater good and lesser evil are preferable to the lesser good and greater evil: the whole BD then is preferable to the whole AC. But ex hypothesi this is not so. A then is preferable to D, and C consequently is less an object of aversion than B. If then every lover in virtue of his love would prefer 4, viz. that the beloved 40 should be such as to grant a favour, and yet should not grant it (for which C stands), to

the beloved's granting the favour (represented by D) without being such as to grant it (represented by B), it is clear that A (being of such a nature) is preferable to granting the favour. To receive affection then is preferable in love to sexual intercourse. Love then is more dependent on friendship than on intercourse. And if it is most dependent on receiving affection, then this is its end. Intercourse then either is not an end at all or is an end relative to the further end, the receiving of affection.

And indeed the same is true of the other desires and arts.

23 It is clear then how the terms are related in conversion, and in respect of being in a higher degree objects of aversion or of desire. We must now state that not only dialectical and demonstrative syllogisms are formed by means of the aforesaid figures, but also rhetorical syllogisms and in general any form of persuasion, however it may be presented. For every belief comes either through syllogism or from induction.

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Now induction, or rather the syllogism which springs out of induction, consists in establishing syllogistically a relation between one extreme and the middle by means of the other extreme, e.g. if B is the middle term between A and C, it consists in proving through C that 4 belongs to B. For this is the manner in which we make inductions. For example let a stand for long-lived, B for bileless, and C for the particular long-lived animals, e.g. man, horse, mule. 4 then belongs to the whole of C: for whatever is bileless is long-lived. But B also ('not possessing bile') belongs to all C. If then C is convertible with B, and the middle term is not wider in extension, it is necessary that A should belong to B. it has already been proved that if two things belong to the same thing, and the extreme is convertible with one of them, then the other predicate will belong to the predicate that is converted. But we must apprehend C as made up of all the particulars. For induction proceeds through an enumeration of all the cases.

Such is the syllogism which establishes the first and immediate premiss: for where there is a middle term the syllogism proceeds through the middle term; when there is no middle term, through

induction. And in a way induction is opposed to syllogism: for the latter proves the major term to belong to the third term by means of the middle, the former proves the major to belong to the middle by means of the third. In the order of ature, syllogism through the middle term is prior and better known, but syllogism through induction is clearer to us.

24 We have an 'example' when the major term is proved to belong to the middle by means of a term which resembles the third. It ought to be 40 known both that the middle belongs to the third term, and that the first belongs to that which resembles the third. For example let 4 be 69a evil, B making war agairst neighbours, C Athenians against Thebans, D Thebans against Phocians. If then we wish to prove that to right with the Thebans is an evil, we must assume that to fight against neighbours is an evil. Evidence of this is obtained from similar cases, e.g. that the 5 ' war against the Phocians was an evil to the Thebans. Since then to fight against neighbours is an evil, and to fight against the Thebans is to fight against neighbours, it is clear that to fight against the Thebans is an evil. Now it is clear that B belongs to C and to D (for both are cases of making war upon one's neighbours) and that a belongs to D (for the war against the Phocians did not turn out well for 10 the Thebans): but that A belongs to B will be proved through b. Similarly if the belief in the relation of the middle term to the extreme should be produced by several similar cases. ly then to argue by example is neither like reasoning from part to whole, nor like reasoning from whole to part, but rather reasoning from 15 part to part, when both particulars are subordinate to the same term, and one of them is known. It differs from induction, because induction starting from all the particular cases proves (as we saw 12) that the major term belongs to the middle, and does not apply the sollogistic conclusion to the minor term, whereas argument by example does make this application and does not draw its proof from all the particular cases.

25 By reduction we mean an argument in which the 20

first term clearly belongs to the middle, but the relation of the middle to the last term is uncertain though equally or more probable than the conclusion; or again an argument in which the terms intermediate between the last term and the middle are few. For in any of these cases it turns out that we approach more nearly to knowledge. For example let 4 stand for what 25 can be taught, B for knowledge, C for justice. Now it is clear that knowledge can be taught: but it is uncertain whether virtue is knowledge. I' now the statement LC 13 is equally or more probable than 4C, we have a reduction: for we εre nearer to knowledge, since we have taken a new term, 14 being so far without knowledge that 4 belongs to C. Or again suppose that the merms intermediate between B and C are few: for 30 thus too we are nearer knowledge. For example let D stand for squaring, E for rectilinear figure, F for circle. If there were only one term intermediate between E and F (viz. that the circle is made equal to a rectilinear figure by the help of lunules), we should be near to knowledge. But when BC is not more probable than 35 AC, and the intermediate terms are not few, I do not call this reduction: nor again when the statement BC is immediate: for such a statement is knowledge.

26 An objection is a premiss contrary to a premiss. It differs from a premiss, because it may be particular, but a premiss either cannot be particular at all or not in universal syllogisms. An objection is brought in two ways and through 69b two figures; in two ways because every objection is either universal or particular, by two figures because objections are brought in opposition to the premiss, and opposites can be pro-5 ved only in the first and third figures. If a man maintains a universal affirmative, we reply with a universal or a particular negative; the former is proved from the first figure, the latter from the third. For example let a stand for there being a single science, B for contraries. If a man premisses that contraries are 10 subjects of a single science, the objection

13 See note 20. 14 viz. E, thus obtaining a certain premiss AB, and a premiss BC, on which the inquiry now turns.

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may be either that opposites are never subjects of a single science, and contraries are opposites, so that we get the first figure, or that the knowable and the unknowable are not subjects of a single science: this proof is in the third figure: for it is true of C (the knowable and the unknowable) that they are contraries, and it is false that they are the subjects of a single science.

Similarly if the premiss objected to is negative. For if a man maintains that contraries are not subjects of a single science, we reply either that all opposites or that certain contraries, e.g. what is healthy and what is sickly, are aubjects of the same science: the former argument issues from the first, the latter from the third figure.

In general if a man urges a universal objection he must frame his contradiction with reference to the universal of the terms taken by his opponent, e.g. if a man maintains that contraries are not subjects of the same science, his opponent must reply that there is a single science of all opposites. Thus we must have the first figure: for the term which embraces the original subject becomes the middle term.

If the objection is particular, the objector must frame his contradiction with reference to a term relatively to which the subject of his opponent's premiss is universal, e.g. he will point out that the knowable and the unknowable are not subjects of the same science: 'contraries' is universal relatively to these. And we have the third figure: for the particular term assumed is middle, e.g. the knowable and the un-Premisses from which it is possible knowable. to draw the contrary conclusion are what we start from when we try to make objections. sequently we bring objections in these figures only: for in them only are opposite syllogisms possible, since the second figure cannot produce an affirmative conclusion.

Besides, an objection in the middle figure would require a fuller argument, e.g. if it should not be granted that 4 belongs to B, because C does not follow B. This can be made clear only by other premisses. But an objection ought not to turn off into other things, but have its new premiss quite clear immediately. For this

reason also this is the only figure from which proof by signs cannot be obtained.

We must consider later the other kinds of objection, namely the objection from contraries, from similars, and from common opinion, and inquire whether a particular objection cannot be elicited from the first figure or a negative objection from the second.

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27 A probability and a sign are not identical, but a probability is a generally approved proposition: what men know to happen or not to 5 happen, to be or not to be, for the most part thus and thus, is a probability, e.g. 'the envious hate', 'the beloved show affection'. sign means a demonstrative proposition necessary or generally approved: for anything such that when it is another thing is, or when it has come into being the other has come into being before or after, is a sign of the other's being or having come into being. Now an enthy-10 meme is a syllogism starting from probabilities or signs, and a sign may be taken in three ways, corresponding to the position of the middle term in the figures. For it may be taken as in the first figure or the second or the third. example the proof that a woman is with child Decause she has milk is in the first figure: 15 for to have milk is the middle term. Let A epresent to be with child, B to have milk, The proof that wise men are good, since Pittacus is good, comes through the last figure. Let A stand for good, B for wise men, C for Pittacus. It is true then to affirm both A and B of C: only men do not say the latter, because they know it, though they state the for-20 mer. The proof that a woman is with child because she is pale is meant to come through the middle figure: for since paleness follows women with child and is a concomitant of this woman, people suppose it has been proved that she is with child. Let A stand for paleness, B for being with child, C for woman. Now if the one pro-25 position is stated, we have only a sign, but if the other is atated as well, a syllogism, e.g. 'Fittacus is generous, since ambitious men are generous and Pittacus is ambitious'. Or again 'Wise men are good, since Pittacus is not only good but wise'. In this way then syllogisms are