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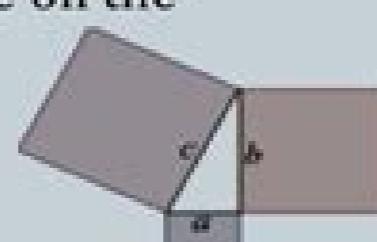
Next

Some basic results in Euclidean Geometry

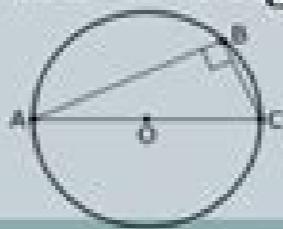
- The sum of angles A, B, and C is equal to 180 degrees.



- The Pythagorean theorem: The sum of the areas of the two squares on the legs (a and b) equals the area of the square on the hypotenuse (c).

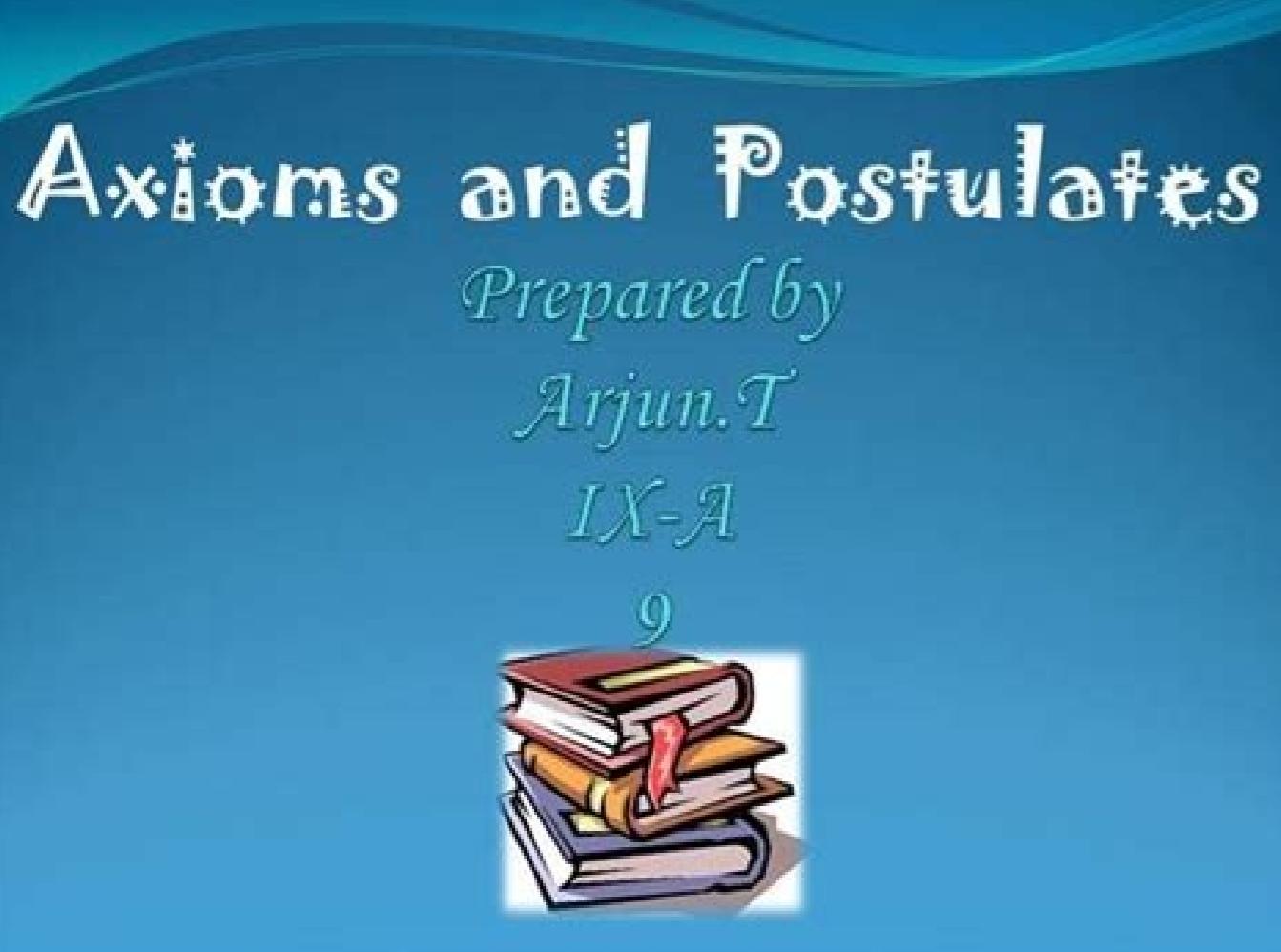


- Thales' theorem: if AC is a diameter then the angle at B is a right angle



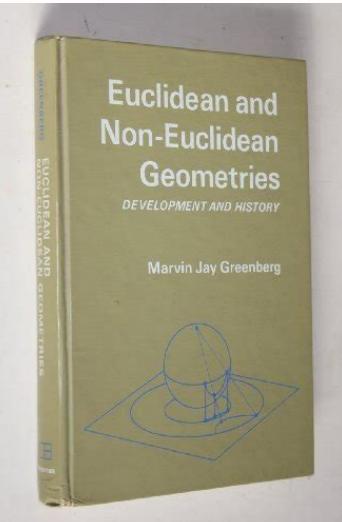
Department of Mathematics, UOM

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METRIC POSTULATES FOR PLANE GEOMETRY

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Making decision in a qualitative setting: from decision under uncertainty to case-based decision

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Abstract

The paper improves a previously proposed axiomatic setting for qualitative decision under uncertainty in the von Neumann and Morgenstern's style, where only ordinal scales are required for assessing uncertainty and utility. A deeper analysis shows that only four axioms are needed, postulating i) that the choice is governed by a complete preorder, ii) that the decision maker is uncertainty-averse, iii) independence and iv) a (new) continuity assumption. Because uncertainty-aversion is assumed, the qualitative utility function enforced by these four postulates is pessimistic on a subset of highly plausible states. Substituting uncertainty-aversion by an uncertainty-prone postulate and suitably modifying the continuity postulate leads to a dual optimistic qualitative utility function (a decision is good as soon as it may have good consequences plausibly). This second function can help breaking ties between decisions having the same pessimistic evaluation. Besides, a case-based counterpart to expected utility has been recently proposed by Gibbons and Schneider, where similarity plays the role of probability. Elements for a qualitative case-based decision methodology are also proposed, with pessimistic and optimistic evaluations formally similar to the expressions which cope with uncertainty, up to modifying factors which cope with the lack of normalization of similarity.

Keywords: Decision Theory, Reasoning under Uncertainty

*On leave from the Universidad Nacional de Río Cuarto (Argentina).

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Second Postulate: A terminated line (a line segment) can be produced indefinitely. 78-88). What is the difference between Axioms and Postulates? In Mathematics, Axioms can be categorized as "Logical axioms" and "Non-logical axioms". The whole is greater than the part. As you read these, take a moment to reflect on each axiom: Things which are equal to the same thing are also equal to one another. Based on logic, an axiom or postulate is a statement that is considered to be self-evident. Mathematics. Axioms are self-evident assumptions, which are common to all branches of science, while postulates are related to the particular science. "It is possible to draw a straight line from any point to any other point". "It is possible to produce a finite straight continuously in a straight line", and "It is possible to describe a circle with any center and any radius" are few examples for postulates illustrated by Euclid. First Postulate: A straight line may be drawn from any one point to any other. It doesn't say that there cannot be more than one such line. Basically, something that is obvious or declared to be true and accepted but have no proof for that, is called an axiom or a postulate. Things which coincide with one another are equal to one another. • An axiom generally is true for any field in science, while a postulate can be specific on a particular field. Postulates The term "postulate" is from the Latin "postulare", a verb which means "to demand". Therefore, the lines (PQ) and (SR) will eventually intersect on the left side of (AB).Important!The statements that can be proved are called propositions or theorems.Reference:National Council of Educational Research and Training (2006). Axioms and postulate serve as a basis for deducing other truths. "Things which are equal to the same thing, are equal to one another" is an example for a well-known axiom laid down by Euclid. Axioms Aristotle by himself used the term "axiom", which comes from the Greek "axioma", which means "to deem worth", but also "to require". If equals be subtracted from equals, the remainders are equal. Published at the Publication Division by the Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi. Thus, the line segment can be extended in both sides to form a line.Postulate 3: A circle can be drawn with any centre and any radius.Postulate 4: All right angles are equal to one another.The postulates from (V1) to (V4) are called "self-evident truths".Postulate 5: If a straight line falling on two straight lines makes the interior angles on the same side of it taken together less than two right angles, then the two straight lines, if produced indefinitely, meet on that side on which the sum of angles is less than two right angles.The line (AB) in falls on lines (PQ) and (SR) such that the sum of the interior angles (V1) and (V2) is less than (180°) on the left side of (AB). Chapter-5 Introduction to Euclid's Geometry(pp. Third Postulate: A circle can be drawn with any center and any radius. Next, let us take a look at the postulates of Euclid, which were (according to him) universal truths specific to geometry. Aristotle had some other names for axioms. Download SOLVED Practice Questions of Euclid's Axioms and Postulates for FREEMore Important TopicsMore Important Topics This postulate can be extended to say that a unique (one and only one) straight line may be drawn between any two points. Unlike axioms, postulates aim to capture what is special about a particular structure. Things which are double of the same things are equal to one another. Non-logical axioms sometimes called postulates, define properties for the domain of specific mathematical theory, or logical statements, which are used in deduction to build mathematical theories. The ancient Greeks recognized the difference between these two concepts. Things which are halves of the same things are equal to one another. Both axioms and postulates are assumed to be true without any proof or demonstration. He used to call them as "the common things" or "common opinions". Fifth Postulate: Given a line L and a point P not on the line, exactly one line can be drawn through P which is parallel to L. The statement of the fifth postulate presented here is different from Euclid's original version (more on this later). • It is impossible to prove from other axioms, while postulates are provable to axioms. Logical axioms are propositions or statements, which are considered as universally true. If equals be added to equals, the wholes are equal. This can be written in the form of an axiom. Fourth Postulate: Two right angles are equal to one another. The master demanded his pupils that they argue to certain statements upon which he could build. Euclid made use of the following axioms in his Elements. For example, if two line segments AB and CD can be made to coincide with each other exactly, then we can say that they are equal, in the sense that they have equal lengths. Postulate:It is accepted by everyone without proof but specific to geometry.Axiom:It is also accepted by everyone without proof and applicable in all the fields.1. Things which are equal to the same thing are equal to one another.2. If equals are subtracted from equals, the remainders are equal.3. If equals are added to equals, the wholes are equal.4. Things which coincide with one another are equal to one another.5. The whole is greater than the part.6. Things which are double of the same things are equal to one another.7. Things which are halves of the same things are equal to one another.Postulate 1: A straight line may be drawn from any one point to any other point.it explains that there can be at least one straight line passes through two distinct points.

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