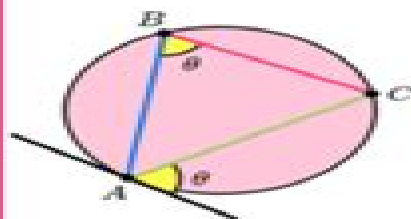


Circle Theorems

Alternate segment theorem



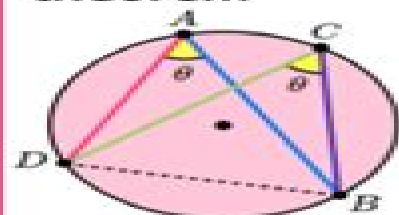
The angle that lies between a tangent and a chord is equal to the angle subtended by the same chord in the alternate segment.

Angle at the centre theorem



The angle at the centre is twice the angle at the circumference.

Angles in the same segment theorem



Angles in the same segment are equal.

Angles in a semicircle



The angle in a semicircle is 90 degrees.

Chord of a circle



The perpendicular from the centre of a circle to a chord bisects the chord (splits the chord into two equal parts).

Cyclic quadrilateral



The opposite angles in a cyclic quadrilateral total 180° .

Tangent of a circle

Diagram A



Diagram B



A. The angle between a tangent and radius is 90 degrees.
B. Tangents which meet at the same point are equal in length.



Geometry Circle Theorems

**Meera Sitharam,Audrey St.
John,Jessica Sidman**



Geometry Circle Theorems:

Geometry and Symmetry L. Christine Kinsey, Teresa E. Moore, Efstratios Prassidis, 2010-04-19 This new book for mathematics and mathematics education majors helps students gain an appreciation of geometry and its importance in the history and development of mathematics The material is presented in three parts The first is devoted to a rigorous introduction of Euclidean geometry the second covers various noneuclidean geometries and the last part delves into symmetry and polyhedra Historical contexts accompany each topic Exercises and activities are interwoven with the text to enable the students to explore geometry Some of the activities take advantage of geometric software so students in particular future teachers gain a better understanding of its capabilities Others explore the construction of simple models or use manipulatives allowing students to experience the hands on creative side of mathematics While this text contains a rigorous mathematical presentation key design features and activities allow it to be used successfully in mathematics for teachers courses as well

A Combination of Geometry Theorem Proving and Nonstandard Analysis with Application to Newton's Principia Jacques Fleuriot, 2012-09-30 Sir Isaac Newton's *philosophi Naturalis Principia Mathematica* the Principia contains a prose style mixture of geometric and limit reasoning that has often been viewed as logically vague In *A Combination of Geometry Theorem Proving and Nonstandard Analysis* Jacques Fleuriot presents a formalization of Lemmas and Propositions from the Principia using a combination of methods from geometry and nonstandard analysis The mechanization of the procedures which respects much of Newton's original reasoning is developed within the theorem prover Isabelle The application of this framework to the mechanization of elementary real analysis using nonstandard techniques is also discussed

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