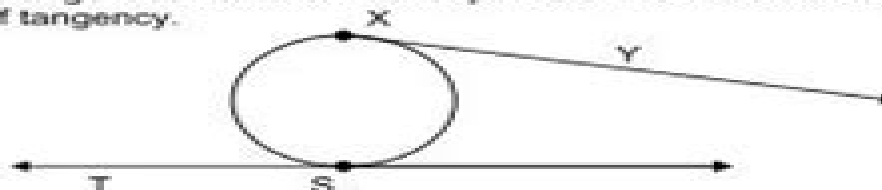


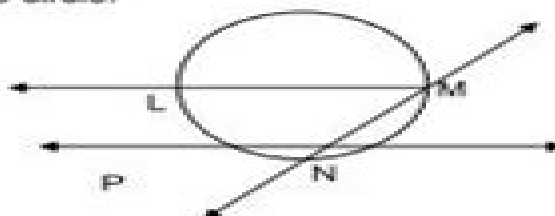
Circles, Lines, and Angles

Special Segments

1. **Tangent** – a line, ray or line segment that intersects a circle in exactly one point called the point of tangency. A tangent contains no interior points of the circle and is perpendicular to the radius at the point of tangency.

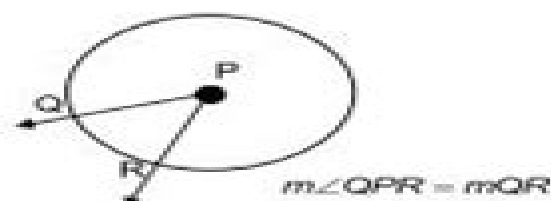


2. **Secant** – a line, ray, or line segment that intersects the circle in exactly two points. A secant contains a chord of the circle.

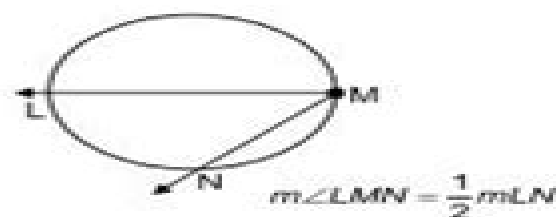


3. Angles Formed by Special Segments

The measure of a central angle is equal to the intercepted arc.



The measure of an inscribed angle is one-half the intercepted arc.



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Annelies Wilder-Smith



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Bourke,1999 Provides sequential activities for ages 10 in the area of geometry and spatial mathematics Covers major learning areas such as identifying different types of angles using a protractor to measure angles using known rules to calculate the size of angles and constructing angles using either a compass or a protractor Also covers a wide range of 2D objects such as the angles of scalene isosceles and equilateral triangles parallel and intersecting lines and angles in a circle and the mathematics of circles

Circles Mindel Sitomer,Harry Sitomer,1971 Simple experiments illustrate the concept and characteristics of the circle

The Circle Alfred S. Posamentier,Robert Geretschläger,2016-08-23 The circle has fascinated mathematicians since ancient times This entertaining book describes in layperson s terms the many intriguing properties of this fundamental shape If math has intimidated you this may be the ideal book to help you appreciate the discipline through one of its most important elements The authors begin with a brief review of the basic properties of the circle and related figures They then show the many ways in which the circle manifests itself in the field of geometry leading to some amazing relationships and truly important geometric theorems In addition they explore remarkable circle constructions and demonstrate how all constructions in geometry that usually require an unmarked straightedge and a compass can also be done with the compass alone Among other things the reader will learn that circles can generate some unusual curves many even quite artistic Finally the role of circles in art and architecture and a discussion of the circle s place on the sphere bring full circle this presentation of a key element of geometry

Key to Geometry, Book 4: Perpendiculars ,2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs Includes Book 4 of Key to Geometry

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Lines, Segments, Rays, and Angles Claire Piddock,2010-01-15 Lines and angles are everywhere they look Young readers learn what lines and angles are Concepts such as perpendicular and parallel lines right and obtuse angles and much more are explained using simple text and images

Key to Geometry, Book 3: Constructions ,2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs Includes Book 3 of Key to Geometry

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