

Mathematics 9
Unit 8: Circle Geometry

Text: Math Makes Sense 9

Chapter 8

By the end of this unit, it is expected that students will:

Outcomes	Pages in textbook
<p>1. Solve problems & justify solutions for the following circle properties:</p> <ul style="list-style-type: none"> ● the perpendicular from a circle's center to a chord bisects the chord. ● the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc. ● the inscribed angles subtended by the same arc are congruent. ● a tangent to a circle is perpendicular to the radius at the point of tangency. <p>< Explain the relationship between the tangent of a circle and the radius at the point of tangency.</p> <p>< Explain the relationship between the perpendicular from the center of the circle and a chord.</p> <p>< Solve a problem involving application of one or more of the circle properties</p> <p>< Explain the relationship between the measure of the central angle and the inscribed angle subtended by the same arc.</p> <p>< Determine the measure of an angle inscribed in a semicircle using the circle properties.</p> <p>< Explain the relationship between the inscribed angles subtended by the same arc.</p>	<p>< Lesson 8.1 Pages 384 - 391</p> <p>< Lesson 8.2 Pages 392 - 399</p> <p>< Lesson 8.3 Pages 404 - 412</p>
<p>Review Exercises:</p> <p>< Mid-Unit Review</p> <p>< Unit Review</p> <p>< Practice Test</p>	<p>Pg: 403 P: 417-419 Pg: 420</p>