

Lesson 12-4

Angle Measures and Segment Lengths



Find the measure of angles formed by chords, secants, and tangents.



Find the lengths of segments associated with circles.

Vocabulary

secant

Theorem 12-11

The measure of an angle formed by two lines that

(1) intersect inside a circle is half the sum of the measures of the intercepted arcs.



(2) intersect outside a circle is half the difference of the measures of the intercepted arcs.



Theorem 12-12

For a given point and circle, the product of the lengths of the two segments from the point to the circle is constant along any line through the point and circle.

I.



II.



III.



Examples

EXAMPLE 1

Finding Angle Measures

Find the value of the variable.



Angle Measures And Segment Lengths Circles Worksheet With Answers

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7th Grade Math (Textboo Nathaniel Max Rock,2006-02 This guide features 180 pages of hands on standards driven study material on how to understand and retain seventh grade math Full explanations with step by step instructions are provided Worksheets for each standard are provided along with two full length 100 problem comprehensive final exams Education

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