#### 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 ares.



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







#### 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.



III.



THE.



#### Examples

Finding Angle Measures

Find the value of the variable.





# **Angle Measures And Segment Lengths Circles Worksheet With Answers**

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