# Angle Measures and Segment Lengths

#### What You'll Learn

- · To find the measures of angles hormed by chords, security, and tangents
- . To find the lengths of segments associated with

#### .... And Why

To find the measure of an arc of a circular basin, as in-Example 2

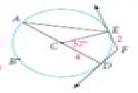




for Help Lessons 12-1 and 12-3

In the discram at the right, FE and FD are tangents to GC. Find each arc measure, angle measure, or length.

- L m DE 57
- 2, mAED 180 X mEBD 300
- 4. m / EAD 28.55, m / AEC 28.54, CE 4
- 8. CF about 4.5 9. m./.EFD 123
- ■0 New Vocabulary secont



#### inding Angle Measures

#### Viocabiallary Tig

The second persons may netter to a line, ray, or segment.

A secont is a line that intersects a circle at two points. All is a secunt ray, and AB is a secant segment.

Angles formed by secunts, tangents and chords intercept ares on circles. The measures of the intercepted ares can help you find the measures of the angles.





### Key Compepts

#### Theorem 12-11

The measure of an angle formed by two lines that

(1) intersect inside a circle is half the sumof the measures of the intercepted area.

$$m \le 1 - 4(x + y)$$

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

$$m \angle 1 = \frac{1}{2}(x - y)$$







Part (1) is proved on the next page. The three cases of Part (2) are proved in Exercises 29 and 30.

Lesson 12-4 Angle Measures and Segment Lengths

## Differentiated Instruction Solutions for All Learners

### Special Needs [31]

Copy the three diagrams in Theorem 12-12 and use colors to label and name each of the following segments: segments of chords, secant segments, exterior secant segments, and tangent segments.

# Believer Lewell 123

As students read Theorem 12-11, they should copy the diagrams and clearly label each intercepted arc. Then have the class identify the intercepted arcs.

learning style; visual.

learning style: visual

# 1. Plan

#### Objectives.

- To find the measures of angles formed by chords, secants, and tangents
- 2 To find the lengths of segments associated with circles

#### Examples

- Finding Angle Measures
- Real-World Connection
- Finding Segment Lengths
- Real-World Connection



### Math Background

The Inscribed Angle Theorem establishes the relationships that are summarized below.

Angle Vertex	Measure
Center	m(arc)
On circle	- m(arc)
Inside circle	- sum of m(arcs)
Outside circle	} - difference of m(arcs)

More Math Background: p. 6600

### Lesson Planning and Resources

See p. 660E for a list of the resources that support this lesson,





For intervention, direct students to:

#### Using the Radius-Tangent Relationship

Lesson 12-1: Example 1 Extra Skills, Word Problems, Proof. Practice, Ch. 12

#### Finding the Measure of an Inscribed Angle

Lesson 12-3: Examples 1, 2 Extra Skills, Word Problems, Proof. Practice, Ch. 12

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# 12 4 Angle Measures And Segment Lengths Worksheet

Rashmi Katyal, Dr. S.B.D. Dwivedi, R.S. Dhauni, B.B. Bhatnagar, Goyal Brothers Prakashan

# 12 4 Angle Measures And Segment Lengths Worksheet:

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