

Angle Measures and Segment Lengths

What You'll Learn

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

... And Why

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



Check Skills You'll Need

In the diagram at the right, $\overline{FE}$ and $\overline{FD}$ are tangents to $\odot C$. Find each arc measure, angle measure, or length.

- $m\widehat{DE}$ 57
- $m\widehat{AED}$ 180
- $m\widehat{EBD}$ 300
- $m\angle EAD$ 28.5
- $m\angle AEC$ 28.5
- CE 4
- DF 2
- CF about 4.5
- $m\angle EFD$ 123



for Help Lessons 12-1 and 12-3



New Vocabulary • secant

1. Plan

Objectives

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

Examples

- 1 Finding Angle Measures
- 2 Real-World Connection
- 3 Finding Segment Lengths
- 4 Real-World Connection



Math Background

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

Angle Vertex	Measure
Center	$m(\text{arc})$
On circle	$\frac{1}{2} \cdot m(\text{arc})$
Inside circle	$\frac{1}{2} \cdot \text{sum of } m(\text{arcs})$
Outside circle	$\frac{1}{2} \cdot \text{difference of } m(\text{arcs})$

More Math Background: p. 660D

Lesson Planning and Resources

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



Bell Ringer Practice



Check Skills You'll Need

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



Finding Angle Measures

Vocabulary Tip

The word **secant** may refer to a line, ray, or segment.

A **secant** is a line that intersects a circle at two points. $\overrightarrow{AC}$ is a secant ray, and $\overline{AB}$ is a secant segment.

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



Key Concepts

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.

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



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

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



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

Differentiated Instruction

Solutions for All Learners

Special Needs 12-1

Copy the three diagrams in Theorem 12-11 and use colors to label and name each of the following segments: segments of chords, secant segments, exterior secant segments, and tangent segments.

learning style: visual

Below Level 12-1

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

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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MnM_POW-Mathematics-PM-06 Manisha Mathur, Me n Mine Pullout Worksheets is a complete resource for practice comprising 3 books for Maths 6 8 and 3 books for Science 6 8 in the form of worksheets through which the learners can revise concepts learnt and identify the areas of improvement A comprehensive assessment is possible through this series Unsolved practice papers as per the latest CBSE syllabus and guidelines are included at the end of each book Along with basic exercises enriching activities like puzzles and crosswords are added to enhance comprehension of concepts and their applications **Me n Mine-Mathematics** Saraswati Experts, A book on Mathematics *New Number Fun Maths Made Easy - 7* A R Kumar, The series is based on the NCER syllabus and follows the vision of National Curriculum Framework NCF 2005 The series emphasises on developing the thinking and reasoning skills among children It connects mathematics with real life situations Books for Primer A B classes 1 and 2 are in workbook format Enough practice has been provided so that children can master the subject *CBSE Chapterwise Worksheets for Class 10* Gurukul,2021-07-30 Practice Perfectly and Enhance Your CBSE Class 10th Board preparation with Gurukul s CBSE Chapterwise Worksheets for 2022 Examinations Our

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