

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

- To find the measures of angles formed by chords, secants, and tangents
- 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	$m(\text{arc})$
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. $\overleftrightarrow{AB}$ 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

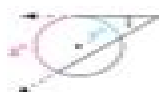
- (1) intersect inside a circle is half the sum of the measures of the intercepted arcs.

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



- (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 12-4

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 12-4

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

Worksheet 12 4 Angle Measures And Segment Lengths

David Baker



Worksheet 12 4 Angle Measures And Segment Lengths:

Hands-On Algebra! Frances McBroom Thompson, Ed.D., 1998-06-08 Lay a solid foundation of algebra proficiency with over 155 hands on games and activities To complement the natural process of learning each activity builds on the previous one from concrete to pictorial to abstract Dr Thompson s unique three step approach encourages students to first recognize patterns then use diagrams tables and graphs to illustrate algebraic concepts and finally apply what they ve learned through cooperative games puzzles problems and activities using a graphic calculator and computer You ll find each activity has complete teacher directions lists of materials needed and helpful examples for discussion homework and quizzes Most activities include time saving reproducible worksheets for use with individual students small groups or the entire class This ready to use resource contains materials sufficient for a two semester course in Algebra I and can be adapted for advanced students as well as students with dyslexia *S.Chand S Mathematics For Class IX Term II* H.K. Dass, Rama Verma & Bhagwat S. Sharma, S Chand s Mathematics books for Classes IX and X are completely based on CCE pattern of CBSE The book for Term I covers the syllabus from April to September and the book for Term II covers the syllabus from October to March **Georgia Milestones Assessment System Mathematics Workbook for Grade 4** Reza Nazari, Ava Ross, 2018-09-10 The Best Book for 4th Grade Students to ACE the GMAS Math Test The goal of this book is simple It will help your student incorporates the best method and the right strategies to prepare for the Georgia Milestones Assessment System Mathematics test FAST and EFFECTIVELY GMAS Mathematics Workbook is full of specific and detailed material that will be key to succeeding on the GMAS Math It s filled with the critical math concepts a student will need in order to ace the test Math concepts in this book break down the topics so the material can be quickly grasped Examples are worked step by step so you learn exactly what to do GMAS Mathematics Workbook helps your student to focus on all Math topics that students will need to ace the GMAS Math test This book with 2 complete GMAS tests is all your student will ever need to fully prepare for the GMAS Math This workbook includes practice test questions It contains easy to read essential summaries that highlight the key areas of the GMAS Math test Effortless Math test study guide reviews the most important components of the GMAS Math test Anyone planning to take the GMAS Math test should take advantage of the review material and practice test questions contained in this study guide Inside the pages of this workbook students can learn basic math operations in a structured manner with a complete study program to help them understand essential math skills It also has many exciting features including Dynamic design and easy to follow activities A fun interactive and concrete learning process Targeted skill building practices Math topics are grouped by category so students can focus on the topics they struggle on All solutions for the exercises are included so you will always find the answers 2 Complete GMAS Math Practice Tests that reflect the format and question types on GMAS GMAS Mathematics Workbook is a breakthrough in Math learning offering a winning formula and the most powerful methods for learning basic Math topics confidently Each section offers step by step instruction and

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Table of Contents Worksheet 12 4 Angle Measures And Segment Lengths

1. Understanding the eBook Worksheet 12 4 Angle Measures And Segment Lengths
 - The Rise of Digital Reading Worksheet 12 4 Angle Measures And Segment Lengths
 - Advantages of eBooks Over Traditional Books
2. Identifying Worksheet 12 4 Angle Measures And Segment Lengths
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Worksheet 12 4 Angle Measures And Segment Lengths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Worksheet 12 4 Angle Measures And Segment Lengths
 - Personalized Recommendations
 - Worksheet 12 4 Angle Measures And Segment Lengths User Reviews and Ratings
 - Worksheet 12 4 Angle Measures And Segment Lengths and Bestseller Lists
5. Accessing Worksheet 12 4 Angle Measures And Segment Lengths Free and Paid eBooks
 - Worksheet 12 4 Angle Measures And Segment Lengths Public Domain eBooks
 - Worksheet 12 4 Angle Measures And Segment Lengths eBook Subscription Services
 - Worksheet 12 4 Angle Measures And Segment Lengths Budget-Friendly Options

6. Navigating Worksheet 12 4 Angle Measures And Segment Lengths eBook Formats
 - ePub, PDF, MOBI, and More
 - Worksheet 12 4 Angle Measures And Segment Lengths Compatibility with Devices
 - Worksheet 12 4 Angle Measures And Segment Lengths Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Worksheet 12 4 Angle Measures And Segment Lengths
 - Highlighting and Note-Taking Worksheet 12 4 Angle Measures And Segment Lengths
 - Interactive Elements Worksheet 12 4 Angle Measures And Segment Lengths
8. Staying Engaged with Worksheet 12 4 Angle Measures And Segment Lengths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Worksheet 12 4 Angle Measures And Segment Lengths
9. Balancing eBooks and Physical Books Worksheet 12 4 Angle Measures And Segment Lengths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Worksheet 12 4 Angle Measures And Segment Lengths
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Worksheet 12 4 Angle Measures And Segment Lengths
 - Setting Reading Goals Worksheet 12 4 Angle Measures And Segment Lengths
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Worksheet 12 4 Angle Measures And Segment Lengths
 - Fact-Checking eBook Content of Worksheet 12 4 Angle Measures And Segment Lengths
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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