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10-8 Study Guide and Intervention

Secants, Tangents, and Angle Measures

Intersections On or Inside a Circle A line that intersects a circle at exactly two points is called a secant. The measure of angles formed by secant(s) intersect(s) are related to intercepted arcs.

- If two secants intersect inside a circle or outside the circle, the angle formed is equal to one-half the sum of the measures of the arcs intercepted by the secants and the vertical angle.



- The angle with a vertex outside a circle is equal to one-half the difference of the measures of the arcs intercepted by the secants.



Example 1 Find x .
The measures of the arcs formed by two secants intersecting inside a circle are equal to one-half the sum of the measures of the arcs intercepted by the secants and the vertical angle.

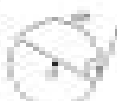


$$x = \frac{1}{2}(100 + 120)$$

$$x = \frac{1}{2}(220)$$

$$x = 110$$

Example 2 Find x .
The measure of the angle formed by two secants intersecting outside a circle is equal to one-half the difference of the measures of the arcs intercepted by the secants.



$$x = \frac{1}{2}(120 - 100)$$

$$x = \frac{1}{2}(20)$$

$$x = 10$$

Example 3

Find each measure.

1. $m\angle x = 40$



2. $m\angle x = 40$



3. $m\angle x = 70$



4. $m\angle x = 30$



5. $m\angle x = 30$



6. $m\angle x = 100$



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Secants, Tangents, and Angle Measures

Intersections Outside a Circle A secant and a tangent intersect outside a circle. The measure of angles formed is related to the intercepted arcs.

The angle with a vertex outside a circle is equal to one-half the difference of the measures of the arcs intercepted by the secant and the tangent.



If $m\angle x$ is twice the measure of the arc intercepted by the secant and the tangent, find the measure of the arc.



If $m\angle x$ is equal to the measure of the arc intercepted by the secant and the tangent, find the measure of the arc.



If $m\angle x$ is four times the measure of the arc intercepted by the secant and the tangent, find the measure of the arc.

Example 4

Find $m\angle x$.
 $\angle x$ is formed by a secant and a tangent intersecting outside a circle.

$$m\angle x = \frac{1}{2}(m\text{arc } AC - m\text{arc } BD)$$

$$x = \frac{1}{2}(120 - 100)$$

$$x = \frac{1}{2}(20)$$

$$x = 10$$

The measure of the angle is 10.



Find each measure.

1. $m\angle x = 20$



2. $m\angle x = 40$



3. $m\angle x = 40$



4. $m\angle x = 30$



5. $m\angle x = 100$



6. $m\angle x = 10$



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Measuring Angles And Arcs Study Guide

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Table of Contents Measuring Angles And Arcs Study Guide

1. Understanding the eBook Measuring Angles And Arcs Study Guide
 - The Rise of Digital Reading Measuring Angles And Arcs Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Measuring Angles And Arcs Study Guide
 - 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 Measuring Angles And Arcs Study Guide
 - User-Friendly Interface

4. Exploring eBook Recommendations from Measuring Angles And Arcs Study Guide
 - Personalized Recommendations
 - Measuring Angles And Arcs Study Guide User Reviews and Ratings
 - Measuring Angles And Arcs Study Guide and Bestseller Lists
5. Accessing Measuring Angles And Arcs Study Guide Free and Paid eBooks
 - Measuring Angles And Arcs Study Guide Public Domain eBooks
 - Measuring Angles And Arcs Study Guide eBook Subscription Services
 - Measuring Angles And Arcs Study Guide Budget-Friendly Options
6. Navigating Measuring Angles And Arcs Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Measuring Angles And Arcs Study Guide Compatibility with Devices
 - Measuring Angles And Arcs Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Measuring Angles And Arcs Study Guide
 - Highlighting and Note-Taking Measuring Angles And Arcs Study Guide
 - Interactive Elements Measuring Angles And Arcs Study Guide
8. Staying Engaged with Measuring Angles And Arcs Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Measuring Angles And Arcs Study Guide
9. Balancing eBooks and Physical Books Measuring Angles And Arcs Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Measuring Angles And Arcs Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Measuring Angles And Arcs Study Guide
 - Setting Reading Goals Measuring Angles And Arcs Study Guide
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Measuring Angles And Arcs Study Guide
 - Fact-Checking eBook Content of Measuring Angles And Arcs Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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