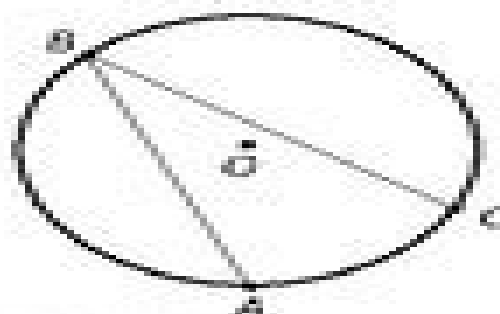


ANGLE RELATIONSHIPS IN CIRCLES

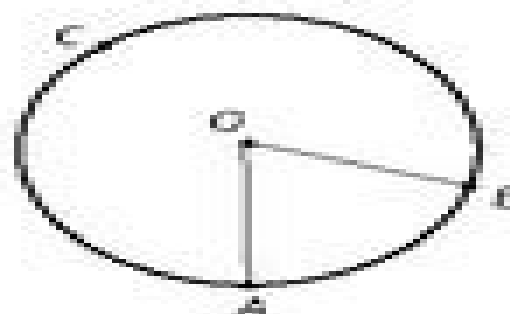
Name _____

Inscribed Angle

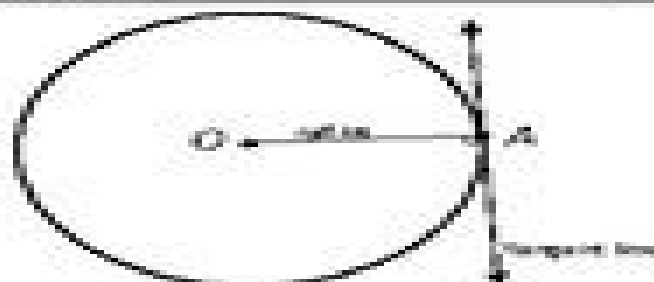


$\angle ABC$ is inscribed in circle O.
The vertex of the angle is on the perimeter of the circle.
 AC is the intercepted arc.
The measure of the inscribed angle is $\frac{1}{2}$ the measure of the intercepted arc.

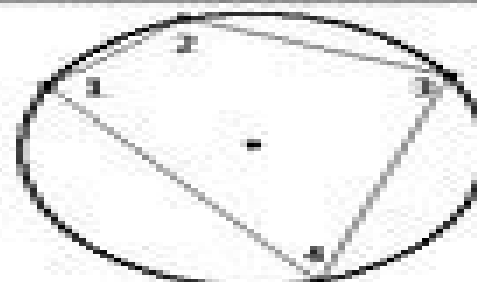
Central Angle



$\angle AOB$ is a central angle and its vertex is O.
The vertex is located at the center of the circle.
 AB is a minor arc - the points are on the circumference of the circle.
 AOB is a major arc - the points are outside of the central angle.
The measure of the central angle is equal to the measure of the minor arc.

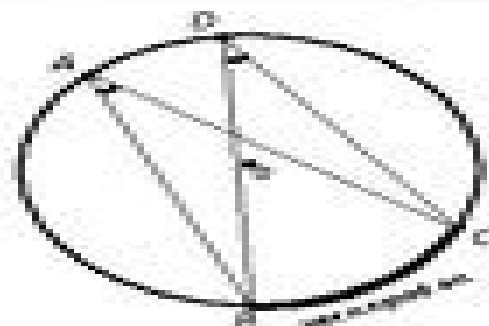


If a line is tangent to a circle, then it is perpendicular to the radius drawn to the point of tangency.
Point A is the point of tangency.



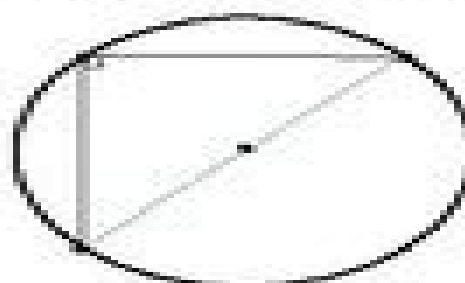
$$\begin{aligned} m\angle 1 + m\angle 3 &= 180^\circ \\ m\angle 2 + m\angle 4 &= 180^\circ \end{aligned}$$

If a quadrilateral is inscribed in a circle, then each vertex is located on the perimeter of the circle; then opposite angles are supplementary (sum to 180 degrees).

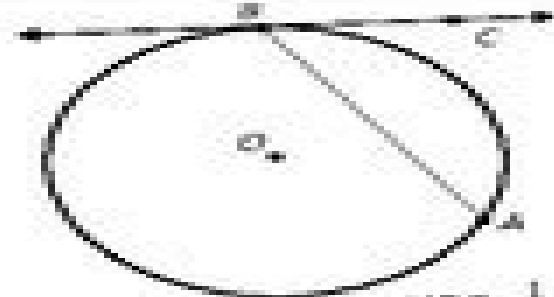


Two inscribed angles that intercept the same arc are congruent.

Special Inscribed Angles



An angle inscribed in a semicircle is a right angle.



$$m\angle ABC = \frac{1}{2} m\widehat{AC}$$

The measure of an angle formed by a chord and a tangent that intersects a circle is half the measure of the intercepted arc.



Angle And Segment Relationships In Circles

Kathy A. Zahler



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Table of Contents Angle And Segment Relationships In Circles

1. Understanding the eBook Angle And Segment Relationships In Circles
 - The Rise of Digital Reading Angle And Segment Relationships In Circles
 - Advantages of eBooks Over Traditional Books
2. Identifying Angle And Segment Relationships In Circles
 - 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 Angle And Segment Relationships In Circles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Angle And Segment Relationships In Circles
 - Personalized Recommendations

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

- 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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