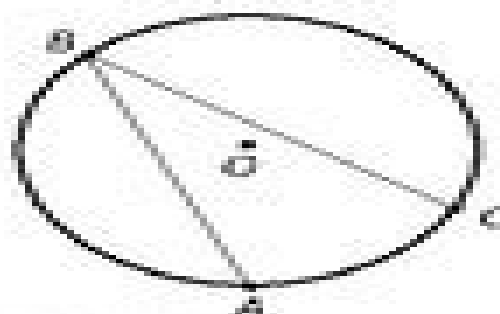


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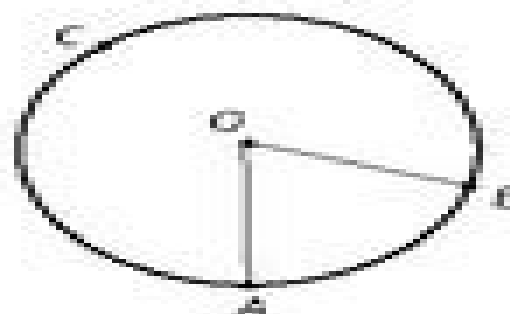
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Inscribed Angle

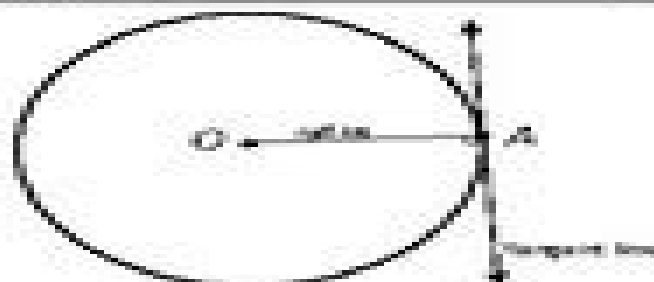


$\angle ABC$ is inscribed in circle O .
The vertex of the angle is on the perimeter of the circle.
 AC is the intercepted arc.
The measure of the inscribed angle is $\frac{1}{2}$ the measure of the intercepted arc.

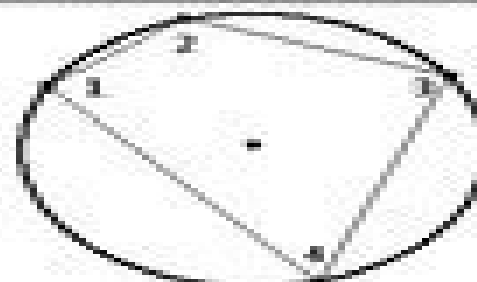
Central Angle



$\angle AOB$ 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.
 ACB 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.

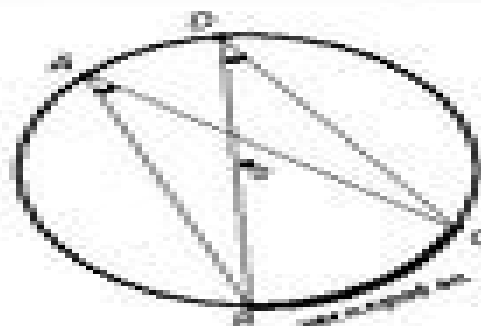


If a line is tangent to a circle, then it is perpendicular to the radius drawn to the point of tangency.
Point A is the point of tangency.



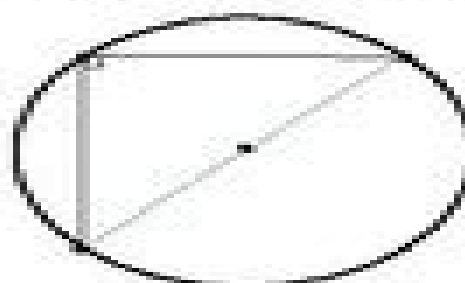
$$\begin{aligned} m\angle 1 + m\angle 3 &= 180^\circ \\ m\angle 2 + m\angle 4 &= 180^\circ \end{aligned}$$

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).

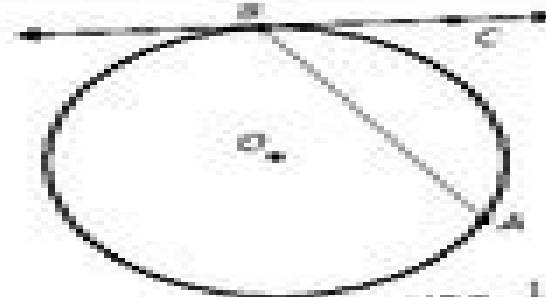


Two inscribed angles that intercept the same arc are congruent.

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 Relationships In Circles Problems

JR Anderson



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