

Mar 5-7:47 PM

An inscribed angle is an angle whose vertex is on a circle and whose sides contain chords or rays of the circle.


## An Intercepted arc is an arc that lies

 between two lines, rays, chords.Inscribed angles are not central angles

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Find the measure of the arc or the angle.


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### 10.4 Inscribed Angles \& Polygons

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Measure of an Inscribed Angle Theorem

The measure of an inscribed angle is one half the measure of its intercepted arc.


$$
m \angle A D B=\frac{1}{2} m \overparen{A B}
$$

*If given the angle, then double to find the arc.
*If given the arc, $1 / 2$ to find the angle.

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Try on your own: Find the measure of the arc or the angle.
a. $m \overparen{A D C}$


If two inscribed angles of a circle intercept the same arc, then the angles are congruent.

$\angle A D B \cong \angle A C B$
Share $\widehat{A B}$
*Works both ways!

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A quadrilateral can be inscribed in a circle if and only if its opposite angles are supplementary.
sum to $180^{\circ}$
inscribrad
Quadal
$\angle E+\angle G=180^{\circ}$
$\angle F+\angle D=180^{\circ}$


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Find the value of each variable.

b.


