

Example 1 Finding Measures of Arcs and Inscribed Angles

Inscribed Angle Theorem

The measure of an inscribed angle is half the measure of its intercepted arc.
(Inscribed $\angle$ Thm.)

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



Case 1



Case 2

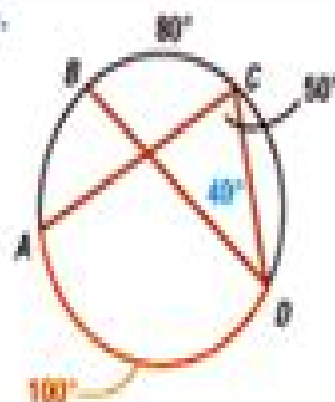


Case 3

According to the Inscribed Angle Theorem, the measure of an inscribed angle is half the measure of its intercepted arc.

Notice how this theorem covers three different cases of inscribed angles. Also, think about how this differs from the relationship of a central angle and its arc.

Find each measure.



$m\angle CDB$

$$\begin{aligned} m\angle CDB &= \frac{1}{2}m\widehat{CB} && \text{Inscribed } \angle \text{ Thm.} \\ &= \frac{1}{2}(80^\circ) = 40^\circ && \text{Substitute } 80^\circ \text{ for } m\widehat{CB}. \end{aligned}$$

$m\widehat{AD}$

$$\begin{aligned} m\widehat{AD} &= 2m\angle ACB && \text{Inscribed } \angle \text{ Thm.} \\ &= 2(50^\circ) = 100^\circ && \text{Substitute } 50^\circ \text{ for } m\angle ACB. \end{aligned}$$

The measure of an inscribed angle and the measure of an arc intercepted by an inscribed angle are determined in these examples.

In the first example, the measure of the arc intercepted by the inscribed angle CDB is given. According to the Inscribed Angle Theorem, the measure of the inscribed angle is equal to one-half the measure of the arc,

$$m\angle CDB = (1/2)m\widehat{CB} = (1/2)80^\circ = 40^\circ.$$

In the second example, the measure of the inscribed angle that intercepts the arc is given. According to the Inscribed Angle Theorem, the measure of the arc is twice the measure of the inscribed angle that intercepts it,

$$m\widehat{AD} = 2m\angle ACB = 2(50^\circ) = 100^\circ.$$

Real World Problems On Inscribed Angles

Henri Picciotto



Real World Problems On Inscribed Angles:

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Mathematical Tools for Real-World Applications Alexandr Draganov, 2022-08-02 Techniques for applying mathematical concepts in the real world six rarely taught but crucial tools for analysis research and problem solving Many young graduates leave school with a solid knowledge of mathematical concepts but struggle to apply these concepts in practice Real scientific and engineering problems are different from those found in textbooks they are messier take longer to solve and standard solution recipes might not apply This book fills the gap between what is taught in the typical college curriculum and what a practicing engineer or scientist needs to know It presents six powerful tools for analysis research and problem solving in the real world

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