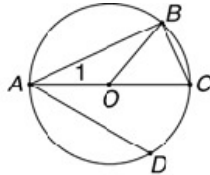


Homework 4 Inscribed Angles Answers



- (a) $m \angle CAD = \frac{1}{2}(m \widehat{CD})$ (Theorem 70)
 $m \angle CAD = \frac{1}{2}(60^\circ)$
 $m \angle CAD = 30^\circ$
- (b) $m \angle 1 = \frac{1}{2}(m \widehat{BC})$ (Theorem 70)
 Multiply each side by 2.
 $2(m \angle 1) = m \widehat{BC}$
 $2(25^\circ) = m \widehat{BC}$
 $m \widehat{BC} = 50^\circ$
- (c) $m \angle BOC = 50^\circ$ (The measure of a central angle equals the measure of its corresponding minor arc.)
- (d) $m \widehat{AB} + m \widehat{BC} = m \widehat{ABC}$ (Arc Addition Postulate)
 $m \widehat{AB} + 50^\circ = 180^\circ$
 $m \widehat{AB} = 130^\circ$
- (e) $m \angle ACB = \frac{1}{2}(m \widehat{AB})$ (Theorem 70)
 $m \angle ACB = \frac{1}{2}(130^\circ)$
 $m \angle ACB = 65^\circ$
- (f) $m \angle ABC = 90^\circ$ (Theorem 72)

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