

10-6 Study Guide and Intervention

Secants, Tangents, and Angle Measures

Intersections On or Inside a Circle A line that intersects a circle in exactly two points is called a **secant**. The measures of angles formed by secants and tangents are related to intercepted arcs.

- If two secants intersect in the interior of a circle, then the measure of the angle formed is one-half the sum of the measures of the arcs intercepted by the angle and its vertical angle.



$$m\angle P = \frac{1}{2}(m\widehat{AB} + m\widehat{CD})$$

- If a secant and a tangent intersect at the point of tangency, then the measure of each angle formed is one-half the measure of its intercepted arc.



$$m\angle ACB = \frac{1}{2}m\widehat{AB}$$

$$m\angle BCB = \frac{1}{2}m\widehat{BC}$$

EXAMPLE 1

Find x .

The two secants intersect inside the circle, so x is equal to one-half the sum of the measures of the arcs intercepted by the angle and its vertical angle.

$$\begin{aligned} x &= \frac{1}{2}(100 + 80) \\ &= \frac{1}{2}(180) \\ &= 90 \end{aligned}$$



EXAMPLE 2

Find y .

The secant and the tangent intersect at the point of tangency, so the measure the angle is one-half the measure of its intercepted arc.

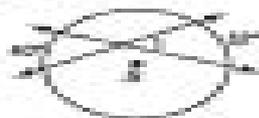
$$\begin{aligned} y &= \frac{1}{2}(180) \\ &= 90 \end{aligned}$$



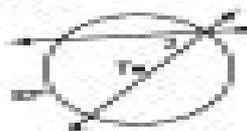
Exercises

Find each measure.

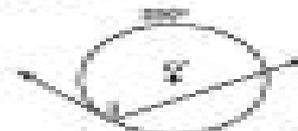
1. $m\angle 1$



2. $m\angle 2$



3. $m\angle 3$



4. $m\angle 4$



5. $m\angle 5$



6. $m\angle 6$



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