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10-8 Study Guide and Intervention

Secants, Tangents, and Angle Measures

Intersections On or Inside a Circle A line that intersects a circle at exactly two points is called a secant. The measure of angles formed by secant lines depends on whether the intersections are outside or inside the circle.

- If two secants intersect inside a circle, the measure of the angle formed is equal to one-half the sum of the measures of the arcs intercepted by the secants and the vertical angle.
- If two secants intersect outside a circle, the measure of the angle formed is equal to one-half the difference of the measures of the arcs intercepted by the secants.



$$x = \frac{1}{2}(a + b)$$



$$x = \frac{1}{2}(a - b)$$

Example 1 Find x .
The measures of the arcs intercepted by the secants are equal to one-half the sum of the measures of the arcs intercepted by the secants and the vertical angle.

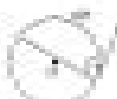


$$x = \frac{1}{2}(100 + 120)$$

$$x = \frac{1}{2}(220)$$

$$x = 110$$

Example 2 Find x .
The measure of the angle formed is the half-difference of the measures of the arcs intercepted by the secants.



$$x = \frac{1}{2}(100 - 120)$$

$$x = \frac{1}{2}(-20)$$

$$x = -10$$

Example 3

Find each measure.

1. $m\angle A = 40$



2. $m\angle B = 30$



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3. $m\angle C = 40$



4. $m\angle D = 30$



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5. $m\angle E = 70$



6. $m\angle F = 90$



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Secants, Tangents, and Angle Measures

Intersections Outside a Circle A secant and a tangent intersect outside a circle. The measure of the angle formed is related to the intercepted arcs.

The measure of the angle formed by a secant and a tangent intersecting outside a circle is equal to one-half the difference of the measures of the intercepted arcs.



$$x = \frac{1}{2}(a - b)$$



$$x = \frac{1}{2}(a - b)$$



$$x = \frac{1}{2}(a - b)$$

Example 1 Find $m\angle PQR$.

$\angle PQR$ is formed by the secant \overline{PQ} and the tangent \overline{PR} .

$$m\angle PQR = \frac{1}{2}(m\widehat{PQ} - m\widehat{RS})$$

$$= \frac{1}{2}(120 - 60)$$

$$= \frac{1}{2}(60)$$

$$= 30$$

The measure of the angle is 30.

Example 2

Find each measure.

1. $m\angle A = 70$



2. $m\angle B = 40$



3. $m\angle C = 70$



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4. $m\angle D = 90$



5. $m\angle E = 30$



6. $m\angle F = 10$



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Measuring Angles And Arcs Study Guide

Lauren Gardner



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