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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(s) intersect(s) are related to intercepted arcs.

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



- The angle with a vertex outside a circle is equal to one-half the difference of the measures of the arcs intercepted by the secants.



**Example 1** Find  $x$ .  
The measures of the two 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.



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

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

$$x = 10$$

### Example 3

Find each measure.

1. arc  $AB$



2. arc  $CD$



3. arc  $EF$



4. arc  $GH$



5. arc  $IJ$



6. arc  $KL$



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## 10-8 Study Guide and Intervention

### Secants, Tangents, and Angle Measures

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

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



If angle  $x$  is acute,  
 $x = \frac{1}{2}(120 - 100)$



If  $x$  is obtuse,  $x$  is the supplement  
 $x = 180 - \frac{1}{2}(120 - 100)$



All angles are right angles,  
 $x = 90 - \frac{1}{2}(120 - 100)$

### Example 4

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



$$m\angle PQR = \frac{1}{2}(120 - 100)$$

$$m\angle PQR = \frac{1}{2}(20)$$

$$m\angle PQR = 10$$

The measure of the angle is 10.

### Example 5

Find each measure.

1. arc  $AB$



2. arc  $CD$



3. arc  $EF$



4. arc  $GH$



5. arc  $IJ$



6. arc  $KL$



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# Measuring Angles And Arcs Study Guide

**Ying Liu**



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web find the value of the discriminant of each quadratic equation  $1. 6p^2 - 2p - 3 = 0$   $2. 7x^2 - 2x + 1 = 0$   $3. 4m^2 - 4m - 5 = 0$   $4. 9b^2 - 4b - 2 = 0$   $5. 41r^2 - 5r - 2 = 0$   $6. 17p^2 - 5p - 4 = 0$   $7. 57x^2 - 4x - 5 = 0$  find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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