Algebra 2
Unit: Geometry
Section: Geometry of Circles

Flash Cards: Tangents and Secants of Circles

Directions: Answer the following.

1. Which of the following are NOT always congruent?
a. Two tangent lines drawn to a circle from a point outside the circle.
b. Two chords drawn in congruent circles which intercept congruent arcs.
c. Two secant lines drawn from a point outside a circle.
d. Two chords drawn in the same circle through the center of the circle.

2. Circle A and Circle B are congruent. Arc HI measures 48 degrees and are JK measures 48 degrees. Segment HI measures 7x minus 3 and segment JK measures 3x plus 17. Find the value of x.
a. 3
b. 5
c. 8
d. 9

3. Point P lies outside circle A. Segment PQ and PR are both tangent to circle A. If segment PQ measures 3y plus 25 and segment PR measures 9y plus 61, find the value of y.
a. 6
b. -3
c. 3
d. -6

Answers:

1. C

2. B

3. D