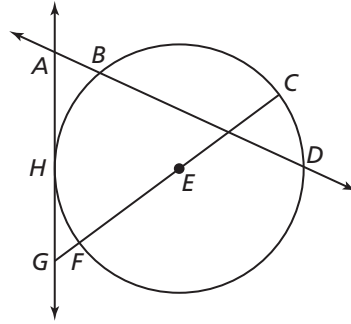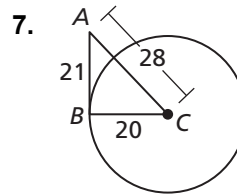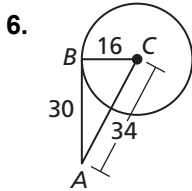Name_____ Date _____

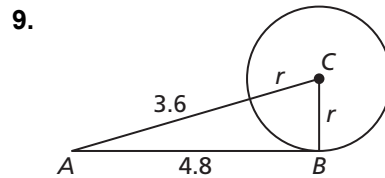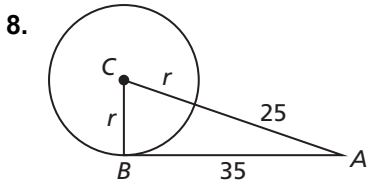## 10.1 Practice B

In Exercises 1–5, use the diagram.

1. Name two radii.

2. Name two chords.

3. Name a diameter.

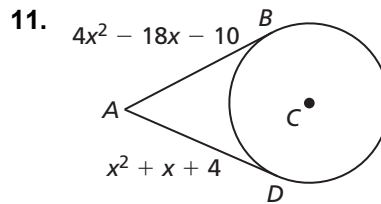4. Name a secant.

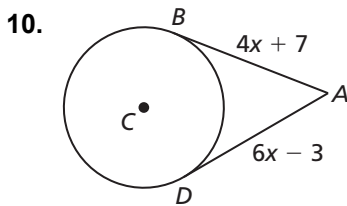5. Name a tangent and a point of tangency.

In Exercises 6 and 7, tell whether $\overline{AB}$ is tangent to $\odot C$. Explain your reasoning.

6.

7.

In Exercises 8 and 9, point B is a point of tangency. Find the radius r of $\odot C$.

8.

9.

In Exercises 10 and 11, points B and D are points of tangency. Find the value(s) of x.

10.

$4x + 7$

$6x - 3$

11.

$4x^2 - 18x - 10$

$x^2 + x + 4$

12. When will two circles have no common tangents? Justify your answer.

13. During a basketball game, you want to pass the ball to either Player A or Player B. You estimate that Player B is about 15 feet from you, as shown.

    a. How far away from you is Player A?

    b. How can you prove that Player A and Player B are the same distance from the basket?