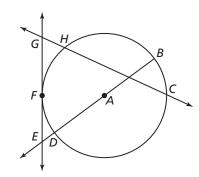
## 10.1 Practice A

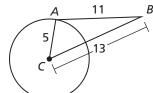
In Exercises 1-5, use the diagram.

- 1. Name the circle.
- **2.** Name two radii.
- **3.** Name two chords.
- **4.** Name a secant.
- **5.** Name a tangent.

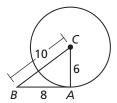


In Exercises 6 and 7, tell whether  $\overline{AB}$  is tangent to  $\odot C$ . Explain your reasoning.

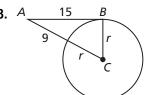
6.



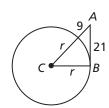
7.



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

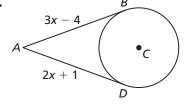


9.

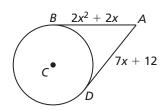


In Exercises 10 and 11, points B and D are points of tangency. Find the value(s) of x.

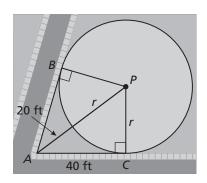
10.



11.



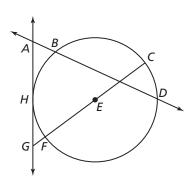
- **12.** Construct  $\odot C$  with a 1-inch radius and a point A outside of  $\odot C$ . Then construct a line tangent to  $\odot C$  that passes through A.
- **13.** Two sidewalks are tangent to a circular park centered at P, as shown.
  - **a.** What is the length of sidewalk AB? Explain.
  - **b.** What is the diameter of the park?



## **Practice B**

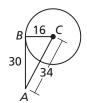
In Exercises 1-5, use the diagram.

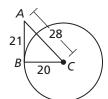
- 1. Name two radii.
- 2. Name two chords.
- 3. Name a diameter.
- **4.** Name a secant.
- **5.** Name a tangent and a point of tangency.



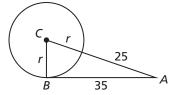
In Exercises 6 and 7, tell whether  $\overline{AB}$  is tangent to  $\odot C$ . Explain your reasoning.

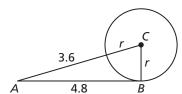
6.





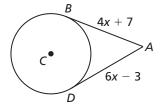
In Exercises 8 and 9, point B is a point of tangency. Find the radius r of  $\odot C$ .

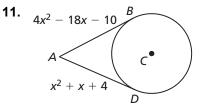




In Exercises 10 and 11, points B and D are points of tangency. Find the value(s) of x.

10.





- **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?

