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.

7.

9.





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*.





- **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?



E Basket C

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10.2 Practice B

In Exercises 1–4, identify the given arc as a *major arc*, *minor arc*, or *semicircle*. Then find the measure of the arc of $\odot U$ if \overline{SQ} and \overline{PR} are diameters.



In Exercises 5–7, tell whether the given arcs are congruent. Explain why or why not.



- **10.** A water sprinkler covers the area shown in the figure. It moves through the covered area at a rate of about 5° per second.
 - **a.** What is the measure of the arc covered by the sprinkler?
 - **b.** When the sprinkler starts at the far left position, how long will it take for the sprinkler to reach the far right position?

