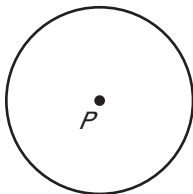
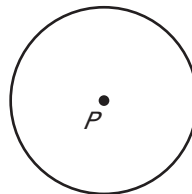


**LESSON**  
**10.1****Practice***For use with pages 650–658***Use  $\odot P$  to draw the described part of the circle.**

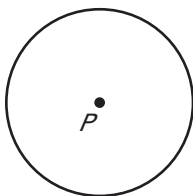
1. Draw a diameter and label it
- $\overline{AB}$
- .



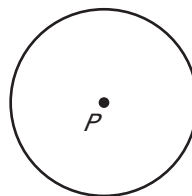
2. Draw a tangent ray and label it
- $\overrightarrow{CD}$
- .



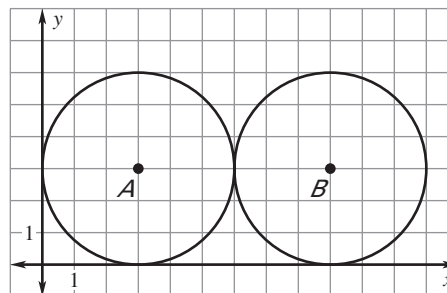
3. Draw a secant and label it
- $\overline{EF}$
- .



4. Draw a chord and label it
- $\overline{GH}$
- .

**Use the diagram to determine if the statement is *true* or *false*.**

5. The distance between the centers of the circles is equal to the length of the diameter of each circle.
6. The lines  $y = 0$  and  $y = 4$  represent all the common tangents of the two circles.
7. The circles intersect at the point  $(6, 3)$ .
8. Suppose the two circles shown are inscribed in a rectangle. The perimeter of the rectangle is 36 units.



**LESSON**  
**10.1**

**Practice** *continued*  
*For use with pages 650–658*

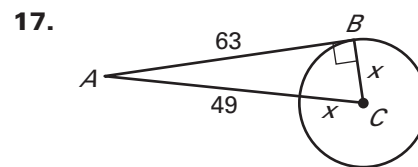
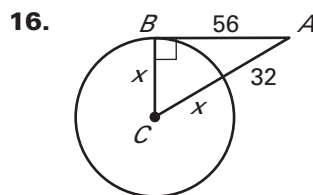
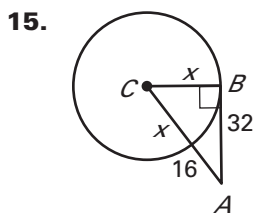
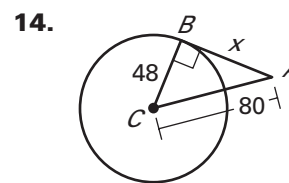
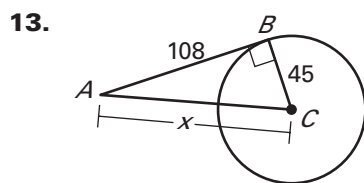
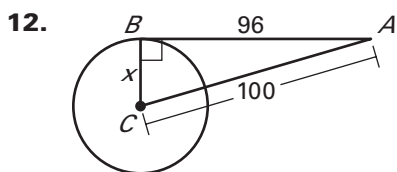
**Draw two circles that have the given number of common tangents.**

9. 3

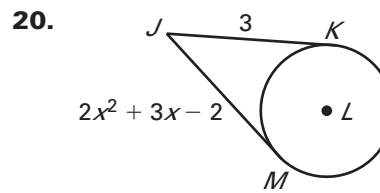
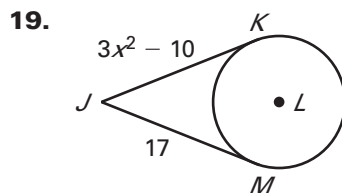
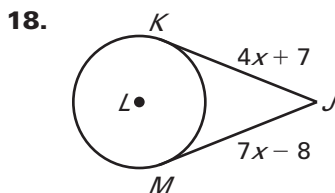
10. 2

11. 0

**In Exercises 12–17,  $\overline{BC}$  is a radius of  $\odot C$  and  $\overline{AB}$  is tangent to  $\odot C$ . Find the value of  $x$ .**

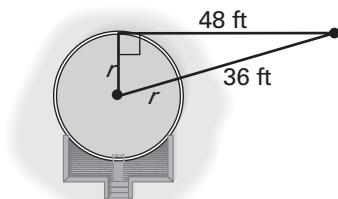


**The points  $K$  and  $M$  are points of tangency. Find the value(s) of  $x$ .**

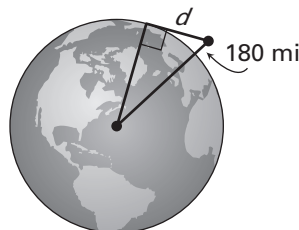


LESSON  
10.1**Practice** *continued*  
For use with pages 650–658

- 21. Swimming Pool** You are standing 36 feet from a circular swimming pool. The distance from you to a point of tangency on the pool is 48 feet as shown. What is the radius of the swimming pool?



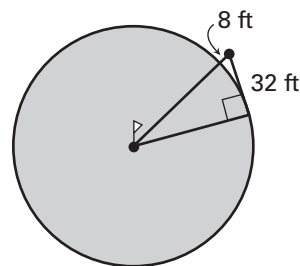
- 22. Space Shuttle** Suppose a space shuttle is orbiting about 180 miles above Earth. What is the distance  $d$  from the shuttle to the horizon? The radius of Earth is about 4000 miles. Round your answer to the nearest tenth.



**In Exercises 23 and 24, use the following information.**

**Golf** A green on a golf course is in the shape of a circle. Your golf ball is 8 feet from the edge of the green and 32 feet from a point of tangency on the green as shown in the figure.

- 23.** Assuming the green is flat, what is the radius of the green?



- 24.** How far is your golf ball from the cup at the center of the green?