LESSON 10.1
Practice A

Match the notation with the term that best describes it.

1. $D$  A. Center
2. $\overrightarrow{FH}$  B. Chord
3. $\overline{CD}$  C. Diameter
4. $\overline{AB}$  D. Radius
5. $C$  E. Point of tangency
6. $\overline{AD}$  F. Common external tangent
7. $\overrightarrow{AB}$  G. Common internal tangent
8. $\overrightarrow{DE}$  H. Secant

Use the diagram at the above.
9. What are the diameter and radius of $\odot A$?
10. What are the diameter and radius of $\odot B$?
11. Describe the intersection of the two circles.
12. Describe all the common tangents of the two circles.

13. Draw a diameter \( \overline{AB} \).

14. Draw tangent line \( \overline{CB} \).

15. Draw chord \( \overline{DB} \).

16. Draw a secant through point \( A \).

17. What is the name of a radius in the figure?

Tell how many common tangents the circles have and draw them.

18.

19.
In the diagram, $\overline{BC}$ is a radius of $\odot C$. Determine whether $\overline{AB}$ is tangent to $\odot C$. Explain your reasoning.

24. 

25. 

26. 

In the diagram, $\overline{AB}$ is tangent to $\odot C$ at point $B$. Find the radius $r$ of $\odot C$.

27. 

28. 

29. 
\( JK \) is tangent to \( \odot L \) at \( K \) and \( JM \) is tangent to \( \odot L \) at \( M \). Find the value of \( x \).

30.

31.

32.

31. **Softball** On a softball field, home plate is 38 feet from the pitching circle. Home plate is about 45.3 feet from a point of tangency on the circle.

\[ 45.3 \text{ ft} \]
\[ 38 \text{ ft} \]

a. How far is it from home plate to a point of tangency on the other side of the pitching circle?
b. What is the radius of the pitching circle?