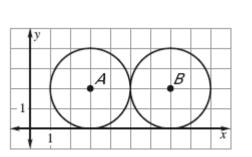
LESSON 10.1 Practice A

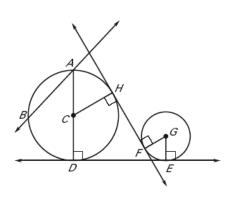
Match the notation with the term that best describes it.

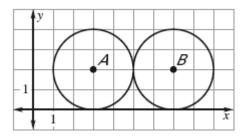
- **1.** *D* **A.** Center
- **2.** \overrightarrow{FH} **B.** Chord
- **3.** \overline{CD} **C.** Diameter
- **4.** \overline{AB} **D.** Radius
- 5. *C* E. Point of tangency
- **6.** \overline{AD} **F.** Common external tangent
- 7. \overrightarrow{AB} G. Common internal tangent
- **8.** \overrightarrow{DE}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



Use the diagram at the above.

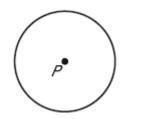
- **9.** What are the diameter and radius of $\odot A$?
- **10.** What are the diameter and radius of $\odot B$?
- **11.** Describe the intersection of the two circles.





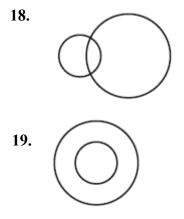
12. Describe all the common tangents of the two circles.

Use $\odot P$ to draw the part of the circle described or answer the question.

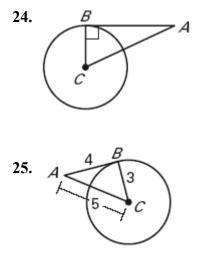


- **13.** Draw a diameter \overline{AB}
- **14.** Draw tangent line \overrightarrow{CB}
- 15. Draw chord \overline{DB} .
- **16.** Draw a secant through point *A*.
- 17. What is the name of a radius in the figure?

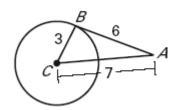
Tell how many common tangents the circles have and draw them.



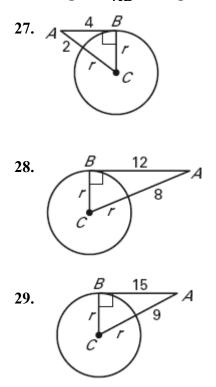
In the diagram, \overline{BC} is a radius of $\odot C$. Determine whether \overline{AB} is tangent to $\odot C$. *Explain* your reasoning.



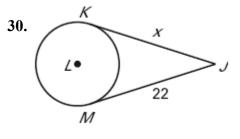
26.



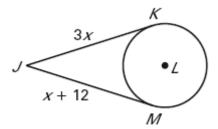
In the diagram, \overline{AB} is tangent to $\odot C$ at point *B*. Find the radius *r* of $\odot C$.



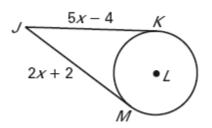




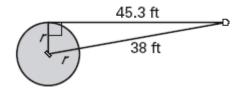
31.



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.



- **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?