LESSON 10.1

NAME _____ DATE _____

Practice B

For use with pages 595–602

The diameter of a circle is given. Find the radius.

1. $d = 13$ in. **2.** $d = 8$ cm **3.** $d = 12.6$ ft **4.** $d = 2$ ft 5 in.

The radius of a circle is given. Find the diameter.

5. $r = 17$ cm **6.** $r = 6.3$ ft **7.** $r = 0.75$ in. **8.** $r = 4.25$ ft

Match the notation with the term that best describes it.

9. F **A.** Center

10. $\overleftrightarrow{FE}$ **B.** Chord

11. $\overline{HG}$ **C.** Diameter

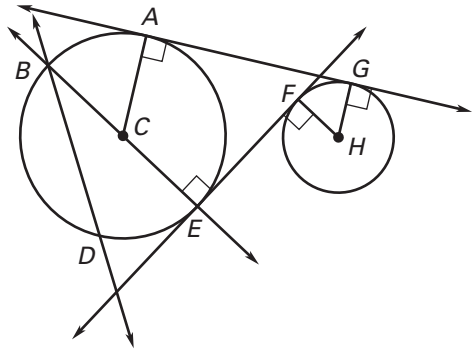
12. $\overline{DB}$ **D.** Radius

13. C **E.** Point of tangency

14. $\overline{BE}$ **F.** Common external tangent

15. $\overleftrightarrow{DB}$ **G.** Common internal tangent

16. $\overleftrightarrow{AG}$ **H.** Secant



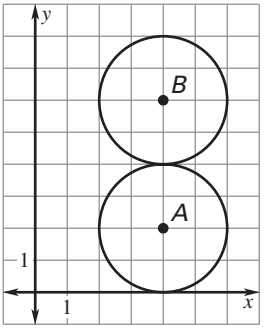
Use the diagram at the right.

17. What are the center and radius of $\odot A$?

18. What are the center and radius of $\odot B$?

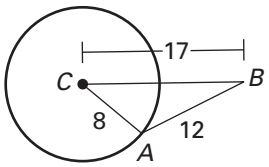
19. Describe the intersection of the two circles.

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



Tell whether $\overleftrightarrow{AB}$ is tangent to $\odot C$. Explain your reasoning.

21.



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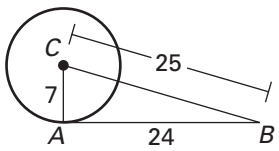
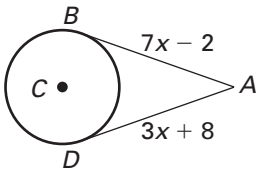


$\overleftrightarrow{AB}$ and $\overleftrightarrow{AD}$ are tangent to $\odot C$. Find the value of x.

23.



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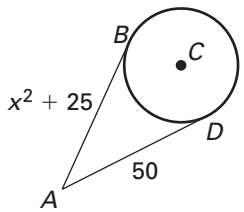

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