

Practice B

For use with pages 595-602

3

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

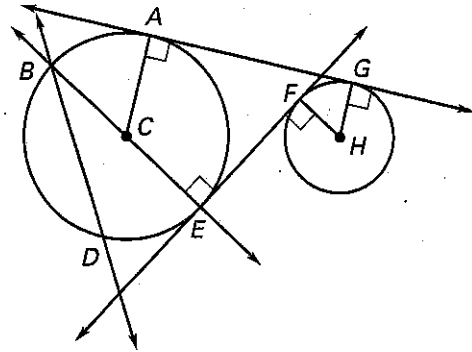
1. $d = 13$ in. 2. $d = 8$ cm 3. $d = 12.6$ ft 4. $d = 2$ ft 5 in.

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

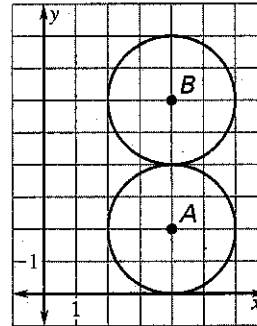
Match the notation with the term that best describes it.

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|-------------------------------|----------------------------|
| 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 |

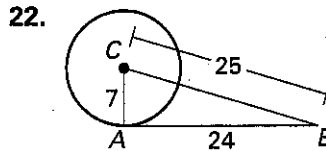
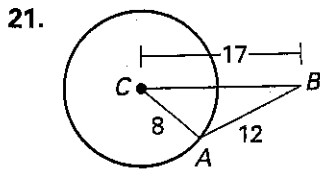


Use the diagram at the right.

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.



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

