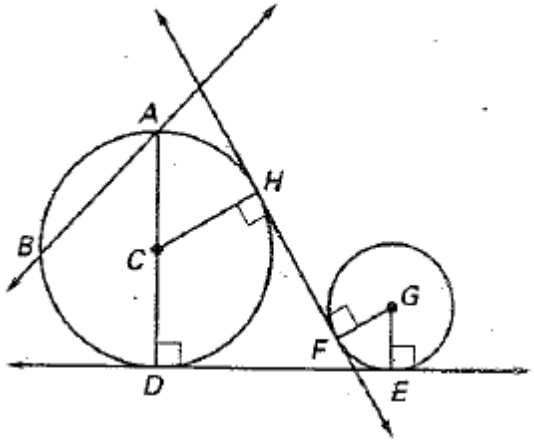
**Geometry** **Name:** _____
**Quiz Review**
**Tangents and Arcs** **Date:** _____**Period:** _____

1. The diameter of a circle is 24 cm, what is the radius of the circle? _____

2. The radius of a circle is 16 inches, what is the diameter of the circle? _____

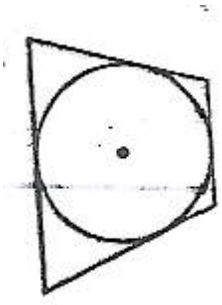
**Match the notation with the term that best describes it.**

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




**Indicate whether the circle is circumscribed, inscribed or neither.**

**11.**



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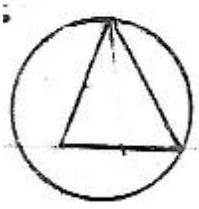
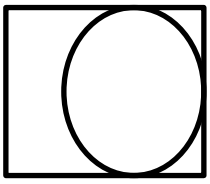
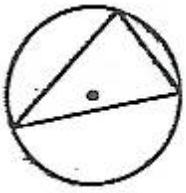


**13.**

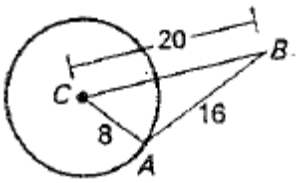


**14.**



**Geometry** **Name:** _____
**Quiz Review**
**Tangents and Arcs** **Date:** _____**Period:** _____

**Is $\overline{AB}$ a tangent to ⊙ C? Explain why or why not (show your work).**



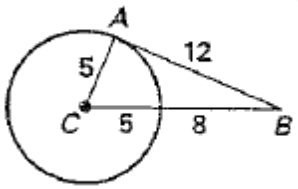

**Work:**

15. **YES or NO**

16. **Explain**: _____

_____

_____




**Work**:

16. **YES or NO**

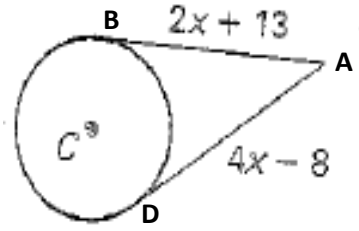
17. **Explain**: _____

_____

_____

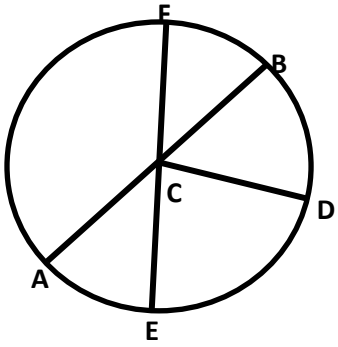
**If $\overleftrightarrow{AB}$ and $\overleftrightarrow{AD}$ are tangent to ⊙$C$.**

18. What is the value of x? x = _____



**Geometry** **Name:** _____
**Quiz Review**
**Tangents and Arcs** **Date:** _____**Period:** _____

**Determine whether the arc is a minor arc, a major arc, or a semicircle of $\odot C$. $\overline{AB}$ and $\overline{FE}$ are diameters of $\odot C$.**



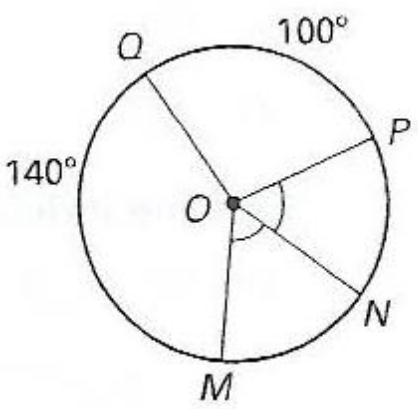

19. $\overset{\frown}{AE}$ _____

20. $\overset{\frown}{FDE}$ _____

21. $\overset{\frown}{BDA}$ _____

22. $\overset{\frown}{DFB}$ _____

**$\overline{MQ}$ and $\overline{NR}$ are diameters. Find the indicated measures.**




23. m$\overset{\frown}{MN}$ _____

24. m$\overset{\frown}{NQP}$ _____

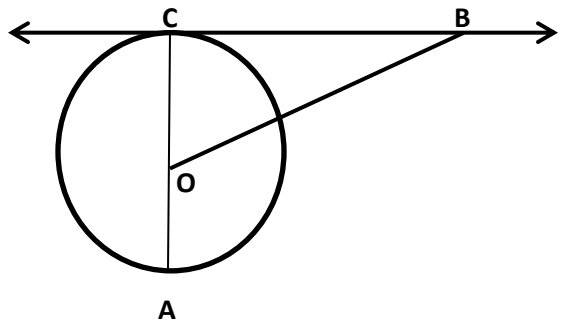
25. m$\overset{\frown}{QN}$ _____

26. m$\overset{\frown}{PM}$ _____

27. m$\overset{\frown}{NMQ}$ _____

**$\overline{AC}$ is a diameter of $\odot O$; AC = 12; $\overleftrightarrow{BC}$ is a tangent to $\odot O$ at C and OB = 10.**

28. Find BC. BC = _____



**Geometry** **Name:** _____
**Quiz Review**
**Tangents and Arcs** **Date:** _____**Period:** _____

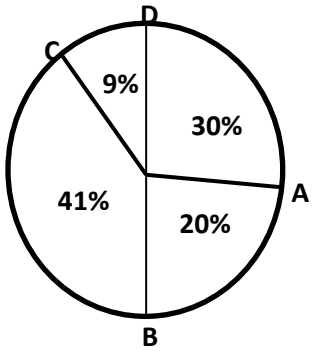
**Use the circle graph to determine the arc measures (to the nearest degree).**

29. $\overset{\frown}{AB}$ _____

30. $\overset{\frown}{BC}$ _____

31. $\overset{\frown}{CD}$ _____

32. $\overset{\frown}{DA}$ _____




**Find the value of x. Find the indicated arc measure.**

33. x = _____

34. m$\widehat{AC}$ = _____

35. m$\widehat{BC}$ = _____

36. x = _____

37. m$\widehat{CD}$ = _____

38. m$\widehat{BC}$ = _____

39. m$\widehat{AD}$ = _____