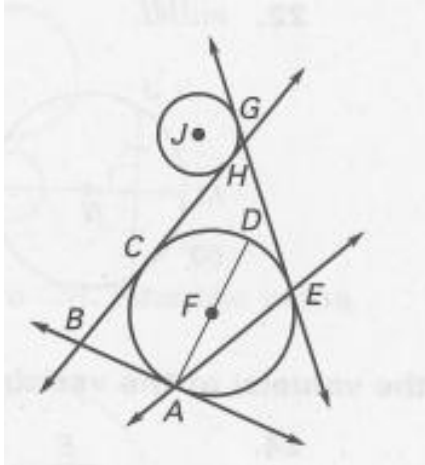


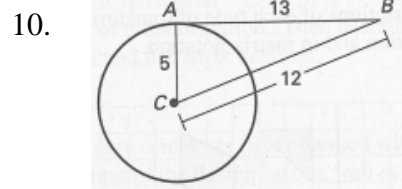
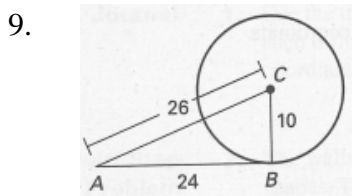
Use the diagram to match the notation with the term that best describes it.



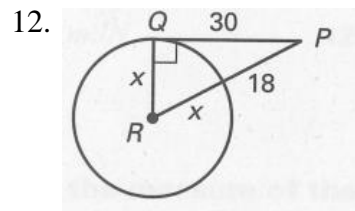
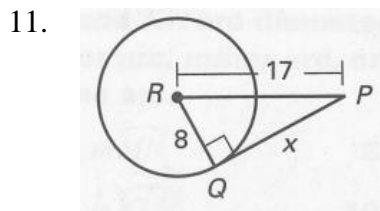
- A. Center
- B. Chord
- C. Common Tangent
- D. Diameter
- E. Point of Tangent
- F. Radius
- G. Secant
- H. Tangent

- 1. \overleftrightarrow{EA} _____
- 2. \overline{AF} _____
- 3. \overleftrightarrow{EG} _____
- 4. F _____
- 5. \overline{DA} _____
- 6. C _____
- 7. \overline{AE} _____
- 8. \overleftrightarrow{AB} _____

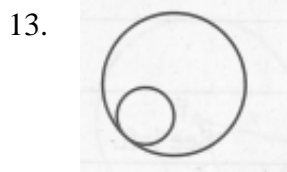
Determine whether \overline{AB} is tangent to circle C. Explain your reasoning.



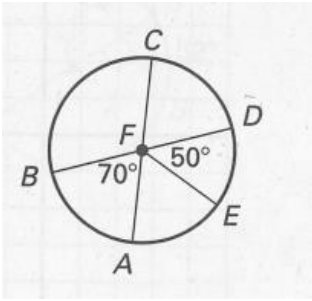
\overline{QR} is a radius of circle R and \overline{PQ} is tangent to circle R. Find the value of x .



Tell how many common tangents the given circles have.



\overline{AC} and \overline{BD} are diameters of circle F. Identify the given arc as a major arc, minor arc or semicircle. Then find the measure of the arc.



16. $m\widehat{AB}$

17. $m\widehat{BC}$

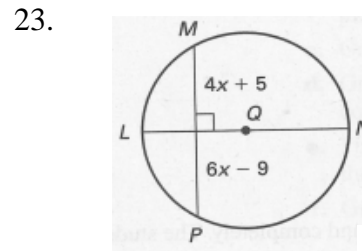
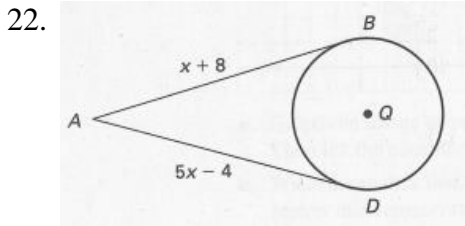
18. $m\widehat{ABC}$

19. $m\widehat{AE}$

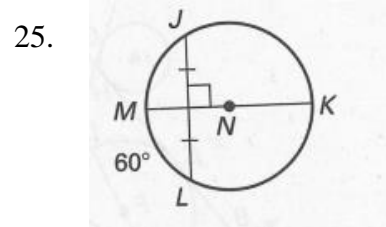
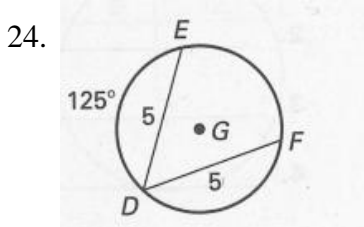
20. $m\widehat{CDE}$

21. $m\widehat{BDC}$

Find the value of x in circle Q.



Find the measure of the given arc or angle measure.



$m\widehat{DF}$

$m\widehat{JM}$

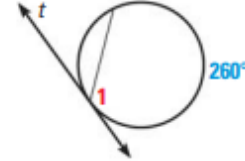
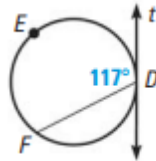
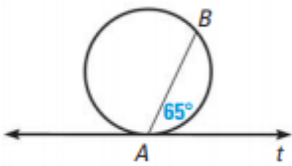
$m\widehat{EF}$

$m\widehat{JKL}$

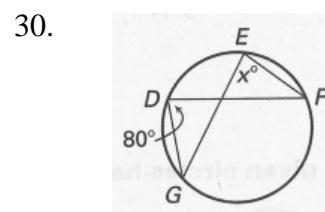
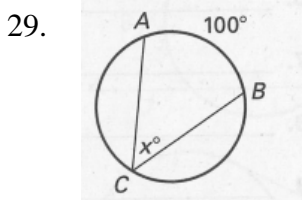
26. $m\widehat{AB}$

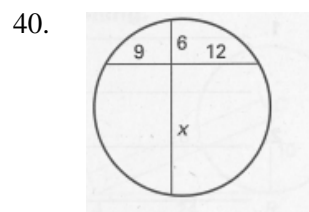
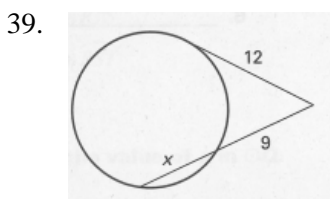
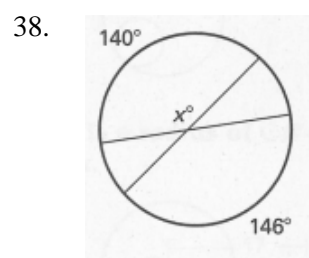
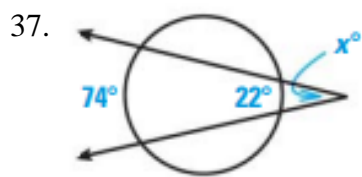
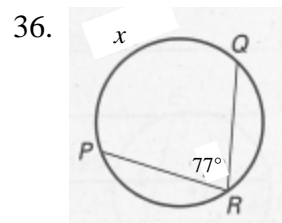
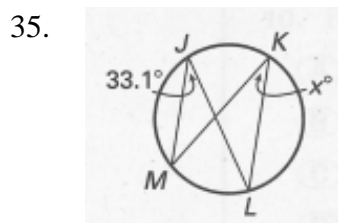
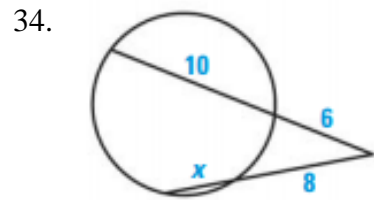
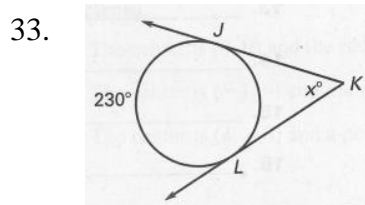
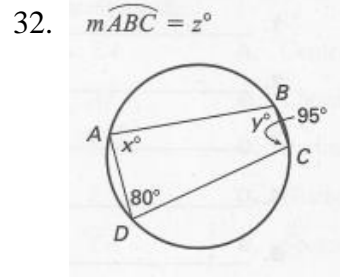
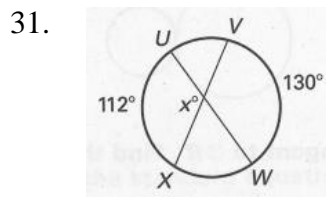
27. $m\widehat{DF}$

28. $m\angle 1$



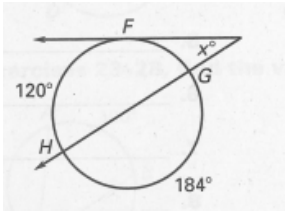
Find the values of the variables.



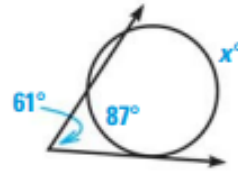


Find the values of the variables.

41.



42.



43. Find the center and radius of a circle that has the standard equation: $(x - 3)^2 + (y + 1)^2 = 25$

Write the standard equation of the circle with the given center and radius

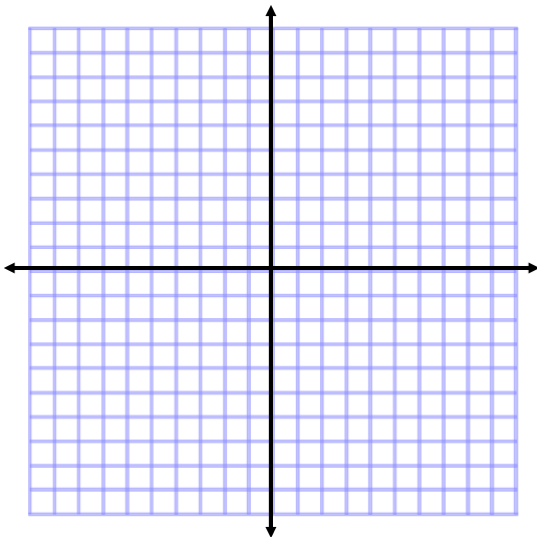
44. Center $(-4, 7)$, Radius 6

45. Center $(3, -9)$, Radius 8.4

46. The point $(1, 2)$ is on a circle whose center is $(5, -1)$. Write the standard equation of the circle.

Graph the equation.

47. $x^2 + (y - 1)^2 = 9$



48. $(x - 2)^2 + (y + 3)^2 = 16$

