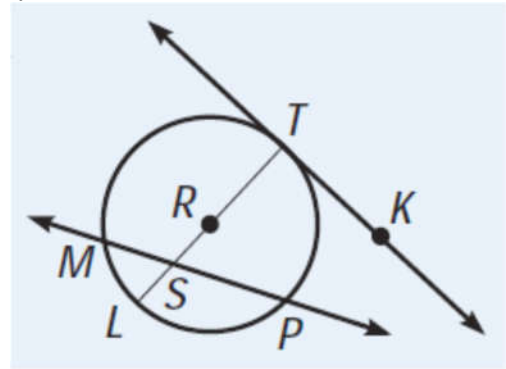


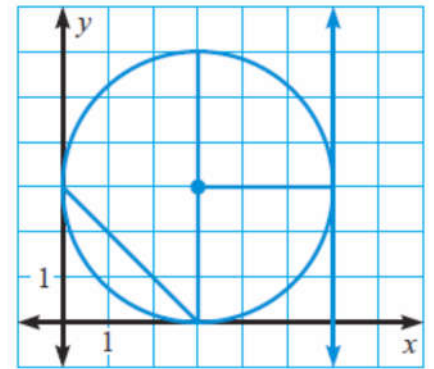
Identify each of the following in the diagram to the right.

1. chord
2. secant
3. tangent
4. radius
5. diameter
6. point of tangency

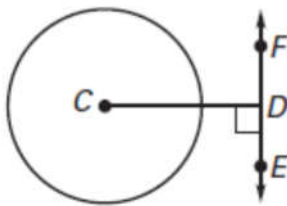


In #7-10, use the diagram shown at the right.

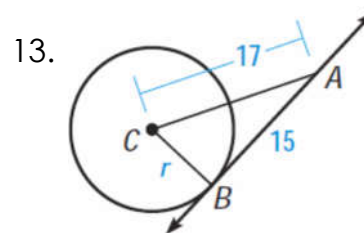
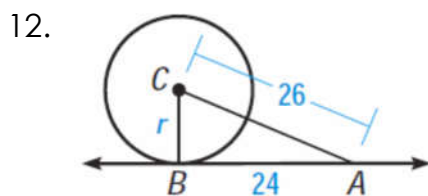
7. Name the coordinates of the center of the circle.
8. Name the coordinates of the endpoints of a diameter.
9. Name the coordinates of a point of tangency.
10. Name the endpoints of a chord that is not a diameter.



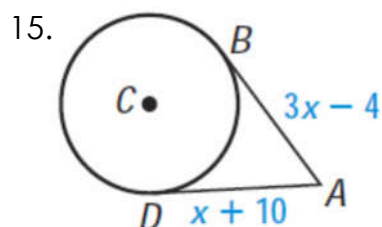
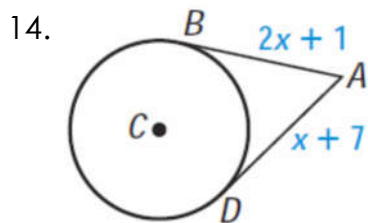
11. $\overleftrightarrow{EF} \perp \overleftrightarrow{CD}$. Is $\overleftrightarrow{EF}$ tangent to $\odot C$? Explain.



$\overleftrightarrow{AB}$ is tangent to circle C. Find the value of r .



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

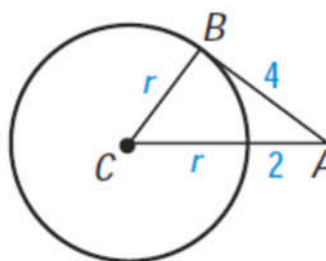


Square the binomial.

16. $(x + 6)^2$

17. $(r + 7)^2$

18. Find the radius r of the circle.



Determine whether the arc is a minor arc, major arc, or semicircle of circle C. $\overline{BF}$ is the diameter.

19. $\widehat{EF}$

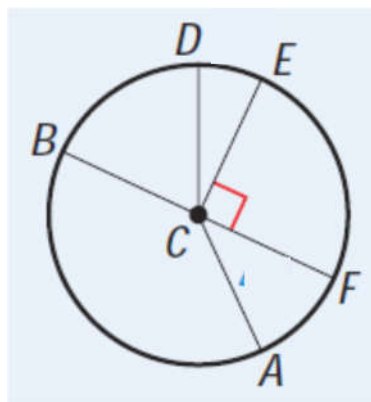
20. $\widehat{DBA}$

21. $\widehat{BEF}$

22. $\widehat{DF}$

23. $\widehat{FAB}$

24. $\widehat{FBE}$



$\overline{AD}$ is a diameter and $m\widehat{CE} = 121^\circ$. Find the measure of each arc.

25. $m\widehat{DE}$

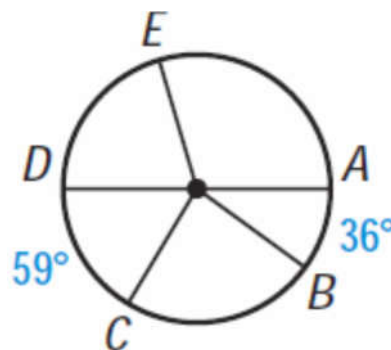
26. $m\widehat{AE}$

27. $m\widehat{AEC}$

28. $m\widehat{BC}$

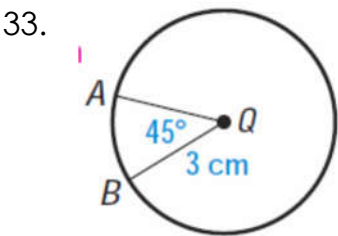
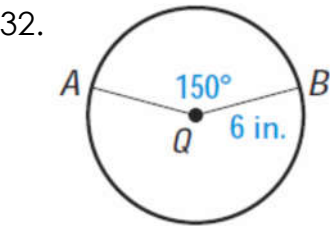
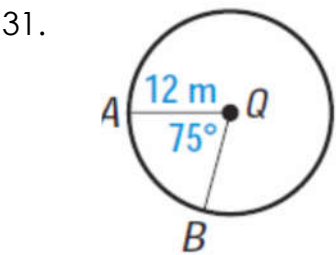
29. $m\widehat{BDC}$

30. $m\widehat{BDA}$

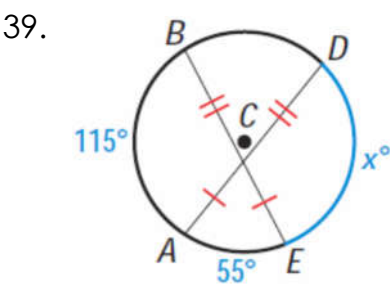
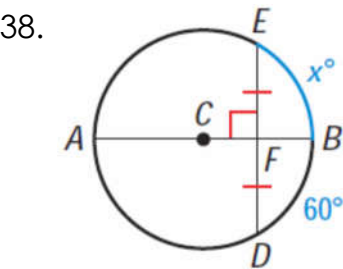
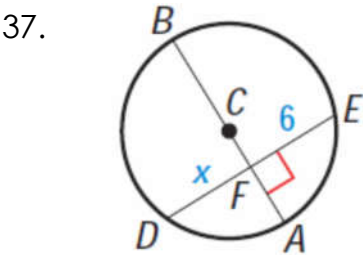
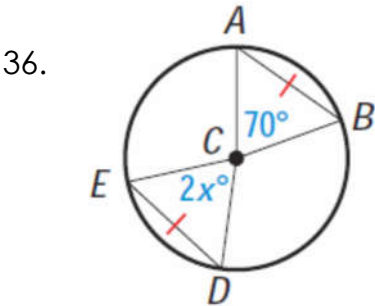
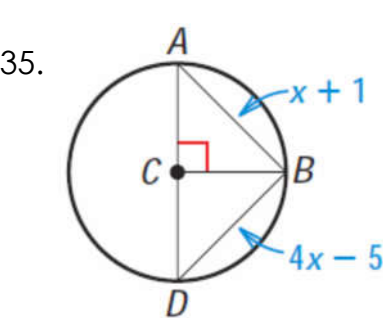
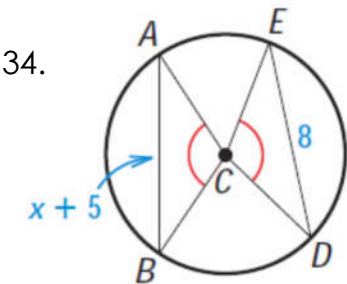


Find the length of $\widehat{AB}$. Round your answers to the nearest tenth.

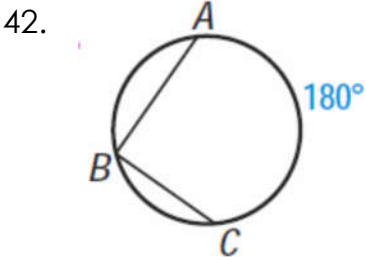
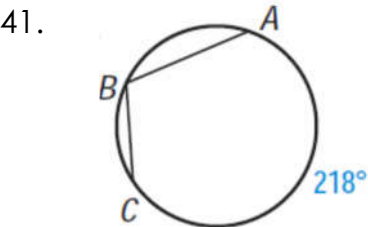
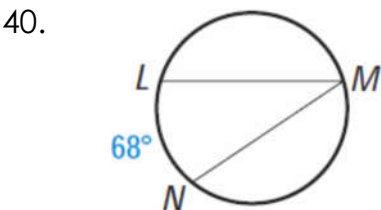
Use the formula : $\frac{x}{2\pi r} = \frac{m\ AB}{360^\circ}$



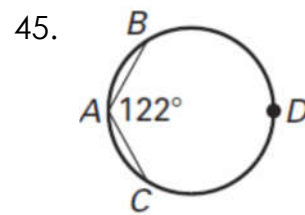
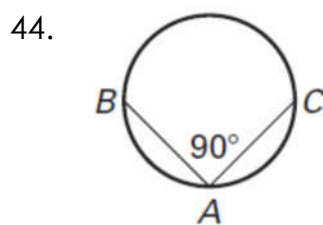
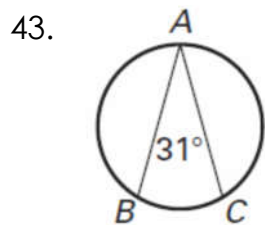
Find the value of x.



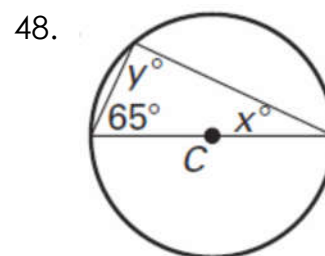
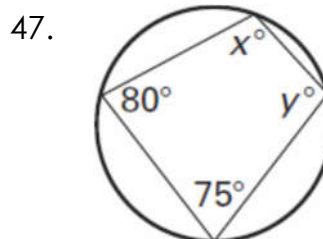
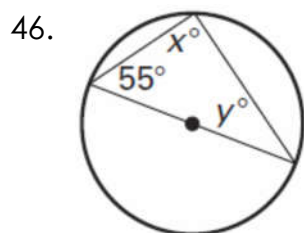
Find the measure of the inscribed angle.



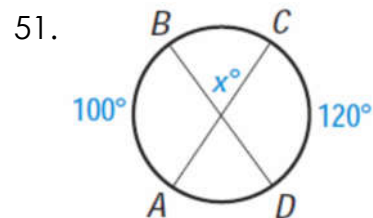
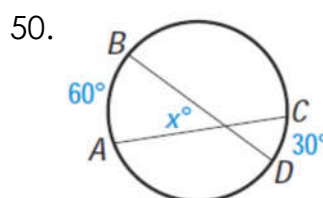
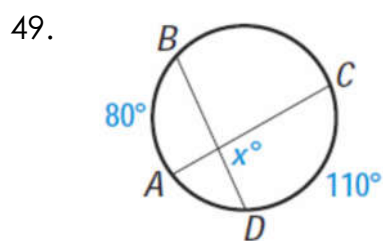
Find the measure of the intercepted arc.



Find the value of each variable.

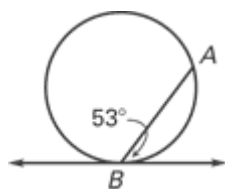


Find the value of x.

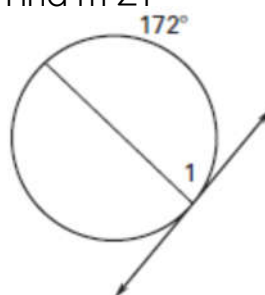


Find the measure of each angle or arc.

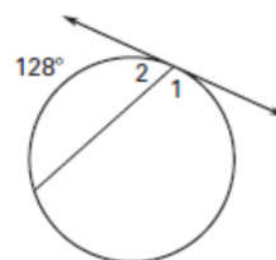
52. Find $m\widehat{AB}$



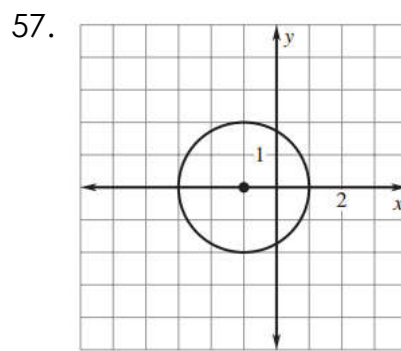
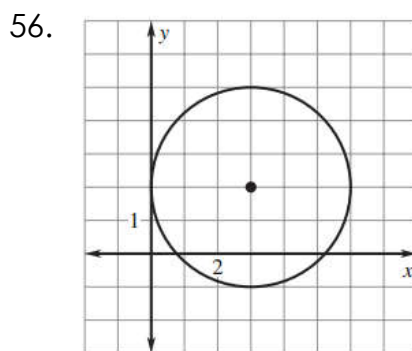
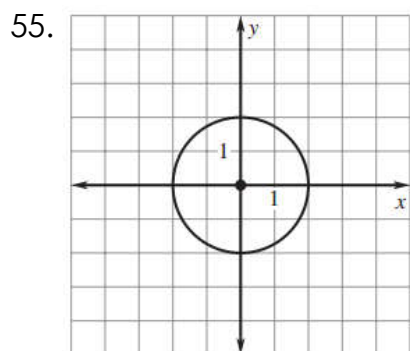
53. Find $m\angle 1$



54. Find $m\angle 1$ and $m\angle 2$



Write the equation of the circle.



Give the radius and the coordinates of the center of the circle. Then graph the circle.

58. $x^2 + y^2 = 25$

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

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

