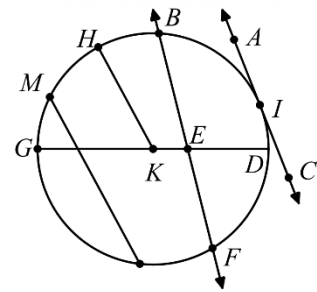


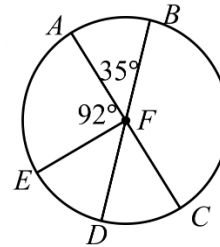
Identify a line or segment in Circle K that is described by each term:

- 1. Chord
- 2. Secant
- 3. diameter
- 4. tangent
- 5. radius

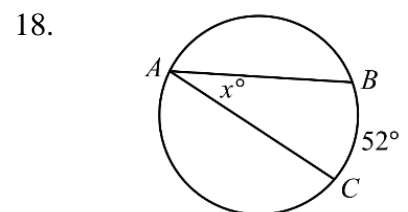
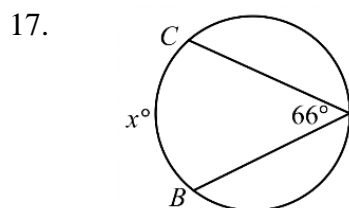
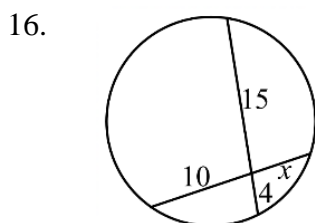
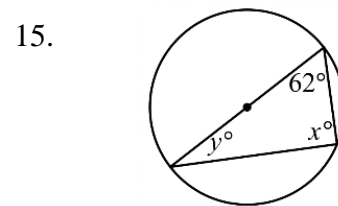
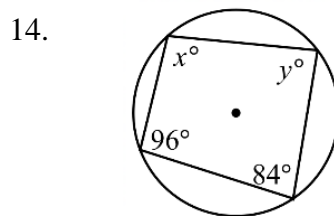
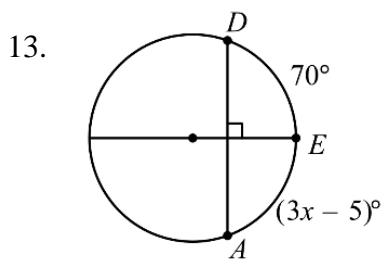
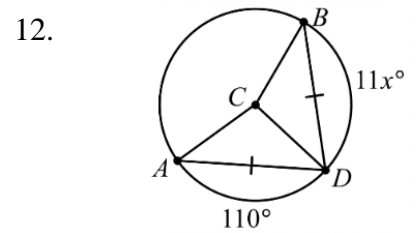
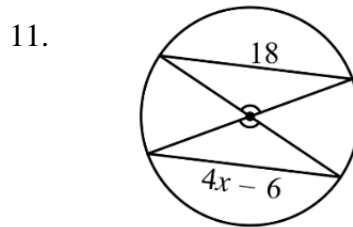
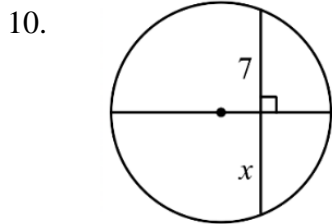


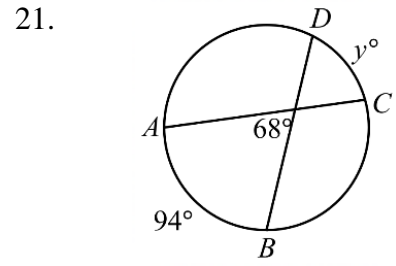
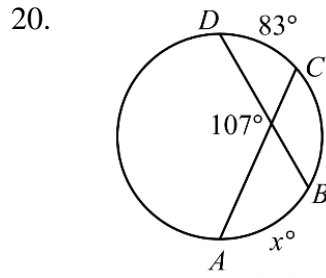
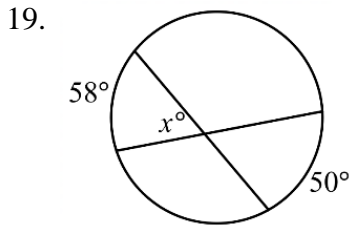
$\overline{AC}$  and  $\overline{BD}$  are diameters. Find the indicated measure

- 6.  $m\widehat{DC}$
- 7.  $m\widehat{BEC}$
- 8.  $m\widehat{BC}$
- 9.  $m\widehat{ED}$

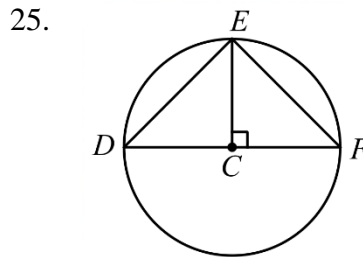
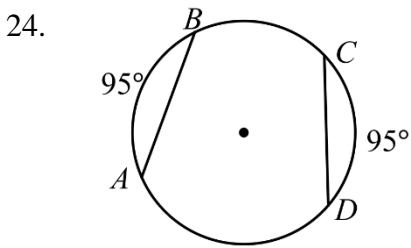
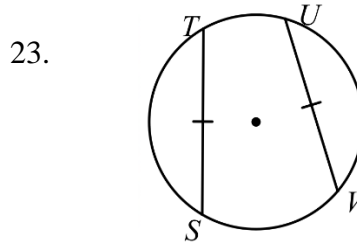
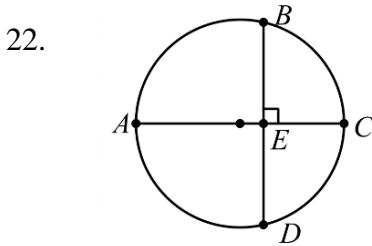


Find the value of the variable(s). Give a **REASON**.





Name any congruent arcs or chords. State the REASON they are congruent.



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

26. Center (0, 0); Radius 4

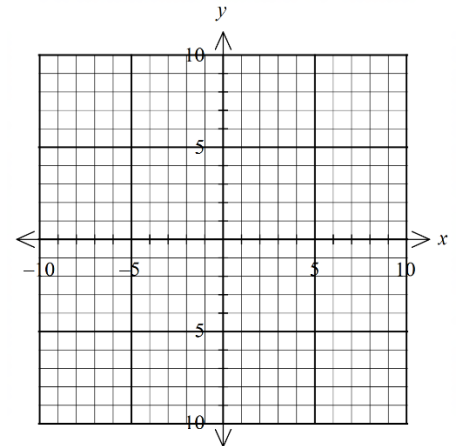
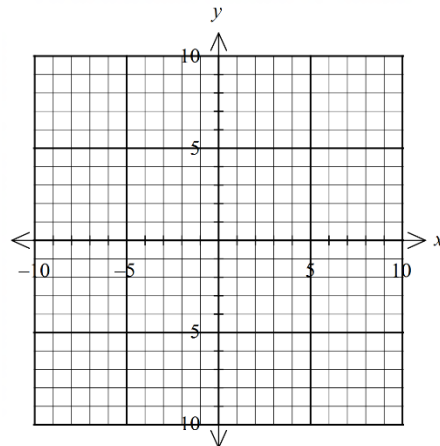
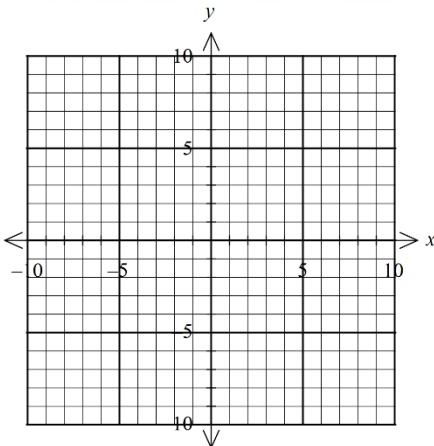
27. Center (5, -7); Radius 9

Give the radius and coordinates of the center of each circle. Graph the circle.

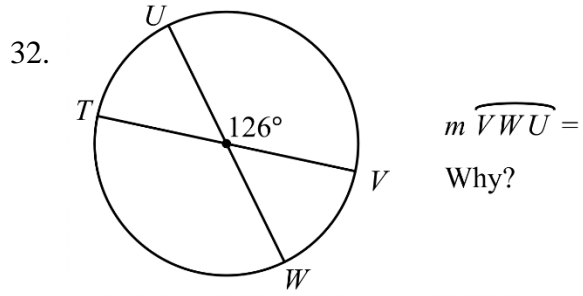
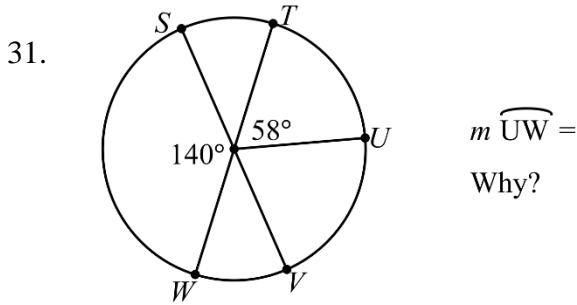
28.  $(x + 3)^2 + (y - 1)^2 = 4$

29.  $(x + 1)^2 + (y - 6)^2 = 13$

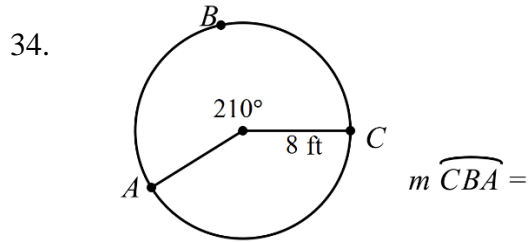
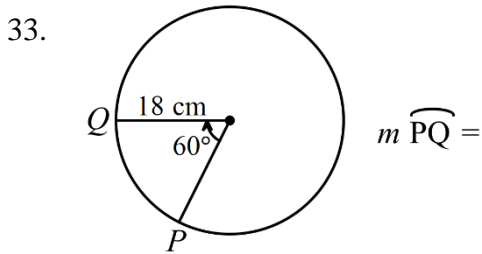
30.  $x^2 - 8x + y^2 = 9$



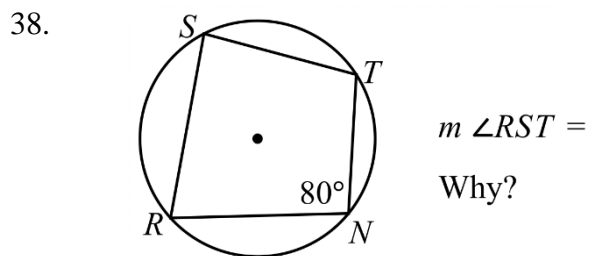
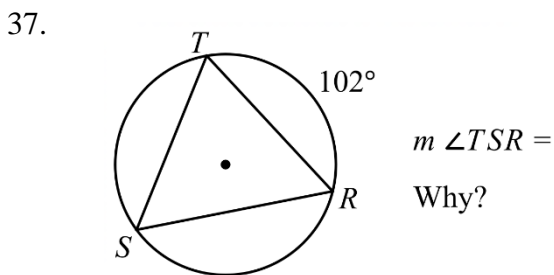
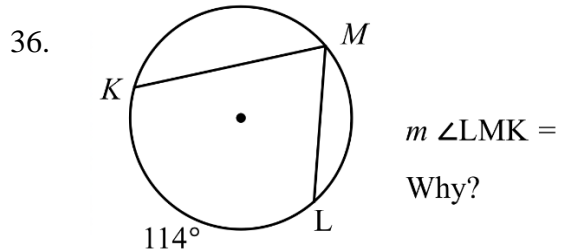
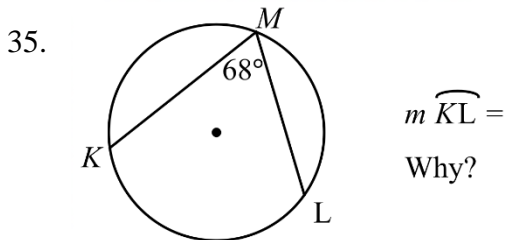
Find the measure of the arc or central angle indicated. Assume lines that appear to be diameters are actual diameters.



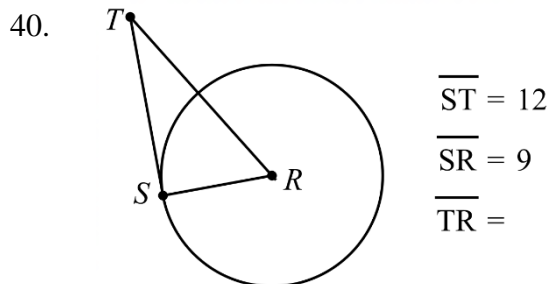
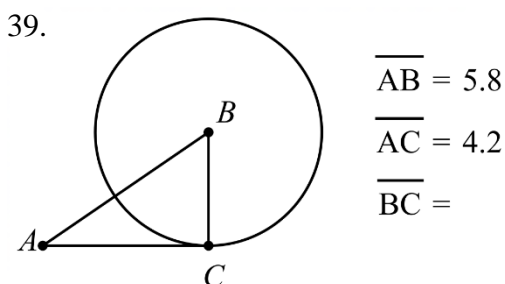
Find the length of each arc. Round your answer to the nearest hundredth.



Find the measure of the arc or angle indicated.

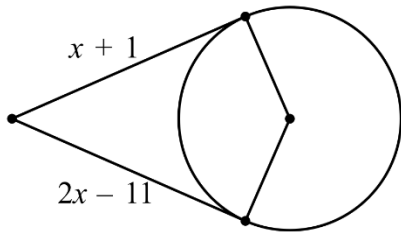


Find the segment length indicated. Assume lines which appear to be tangent are tangent.

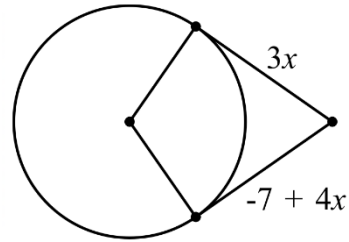


Solve for  $x$ . Assume lines that appear to be tangent are tangent. Give a **REASON** for your equation.

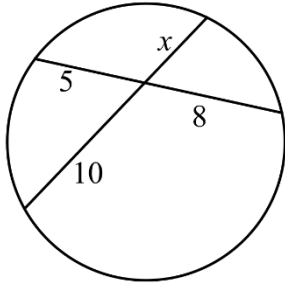
41.



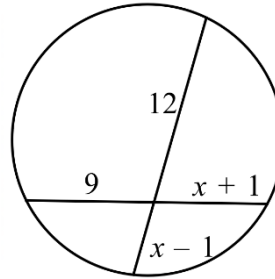
42.



43.

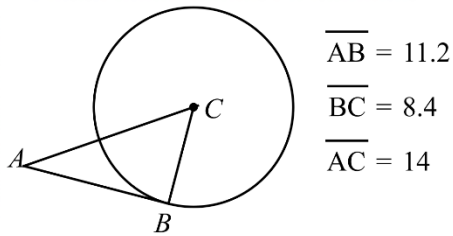


44.

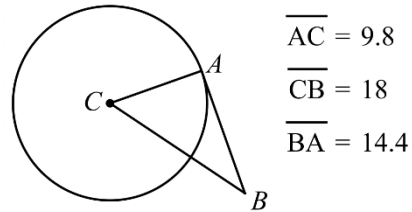


Determine if line  $AB$  is tangent to the circle. State a **REASON**.

45.

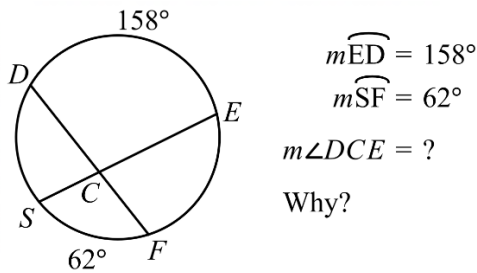


46.



Find the value of  $x$ . Assume lines that appear to be tangent are tangent.

47.



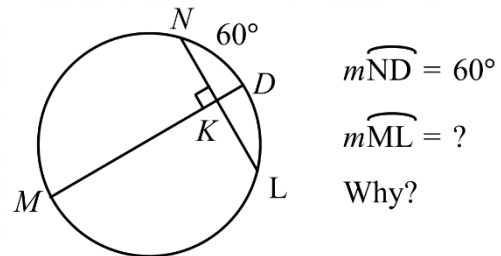
$$m\widehat{ED} = 158^\circ$$

$$m\widehat{SF} = 62^\circ$$

$$m\angle DCE = ?$$

Why?

48.



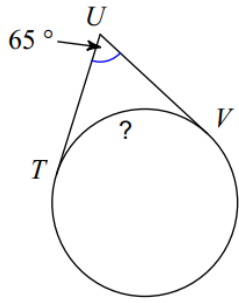
$$m\widehat{ND} = 60^\circ$$

$$m\widehat{ML} = ?$$

Why?

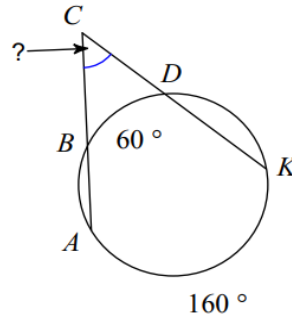
Find the measure of the indicated arc or angle. State a Reason.

49.



Why?

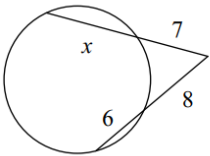
50.



Why?

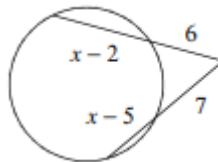
Solve for  $x$ . State a Reason.

51.



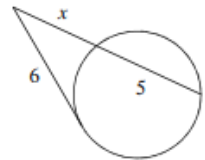
Why?

52.



Why?

53.



Why?

