SM 2

Name:_____ Period:_____

Unit 12 Circles Test Review

Identify a line, segment, or point in the diagram that is described by each term.

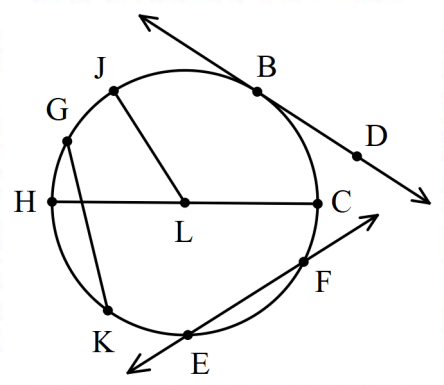
1. Chord _____

2. Secant _____

3. Diameter _____

4. Tangent _____

5. Radius _____



6. Point of Tangency _____

7. Center _____

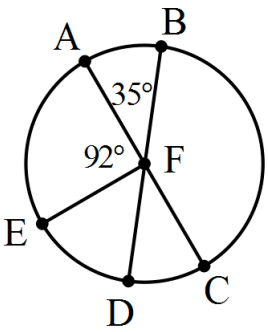
$\overline{AC}$ and $\overline{BD}$ are diameters. Find the indicated measure and determine if the arc is a major or minor arc.

8. $m\overset{\frown}{DC}$ _____ Is this arc a major or minor arc? _____

9. $m\overset{\frown}{BC}$ _____ Is this arc a major or minor arc? _____

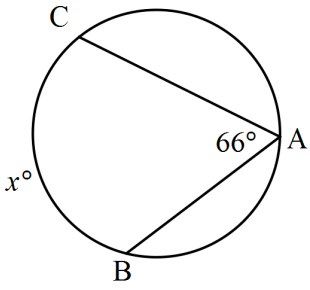
10. $m\overset{\frown}{CAB}$ _____ Is this arc a major or minor arc? _____

11. $m\overset{\frown}{DE}$ _____ Is this arc a major or minor arc? _____

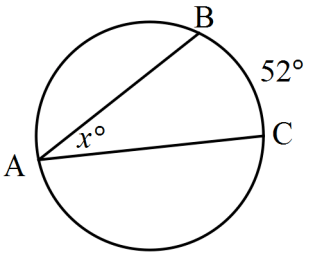


Find the value of the variable(s). Show work.

12.



13.



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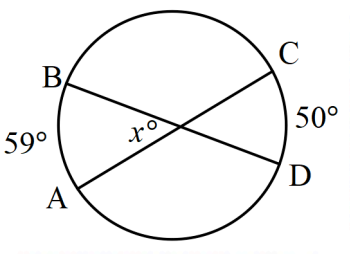

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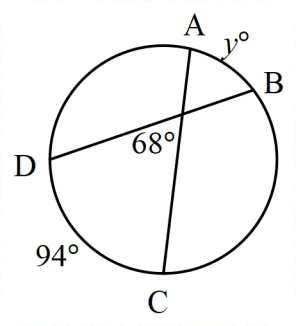

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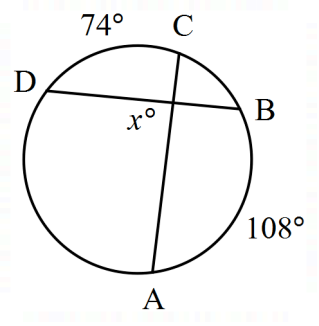
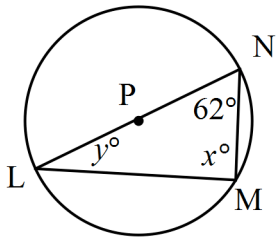
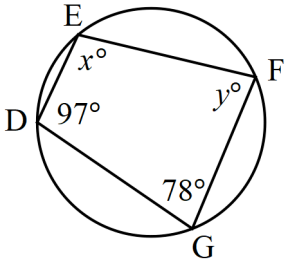


17.

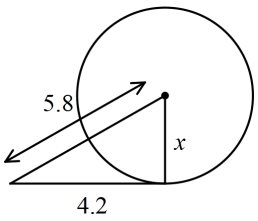


18.



Find the segment length indicated. Assume that segments which appear to be tangent are actually tangent. SHOW WORK!

19.



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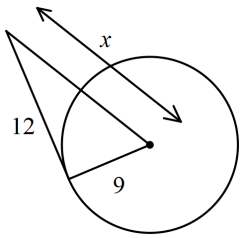
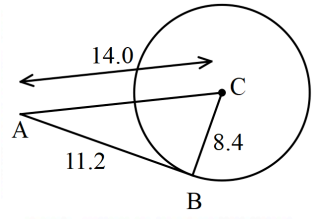
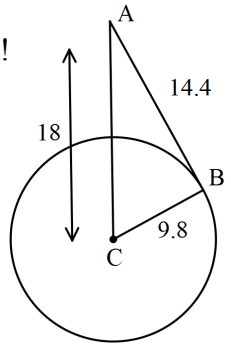


Determine if $\overline{AB}$ is tangent to the circle. SHOW WORK!

21.

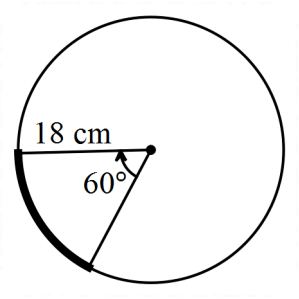


22.

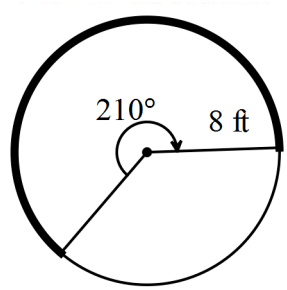


Find the length of each arc. Write your answers in terms of π and as decimals rounded to the nearest tenth.

23.

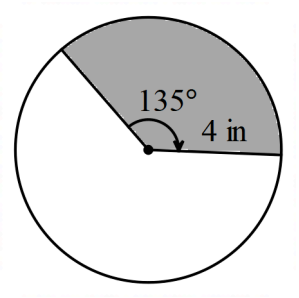


24.

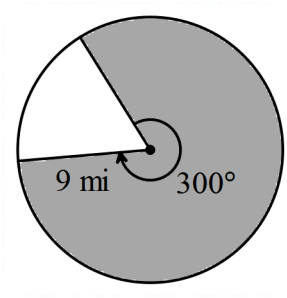


Find the area of each sector. Write your answers in terms of π and as decimals rounded to the nearest tenth.

25.

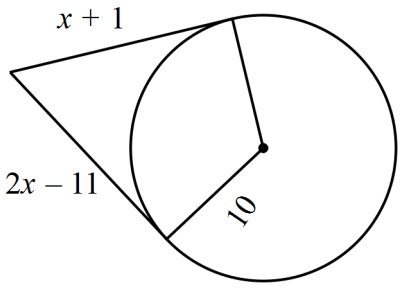


26.

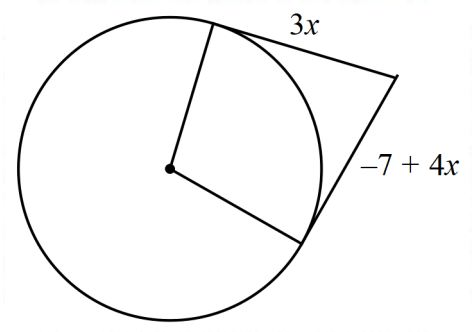


Solve for x. Assume that segments which appear to be tangent are tangent.

27.

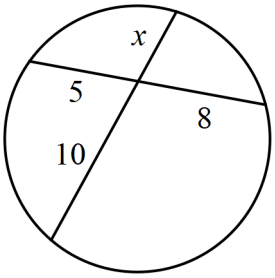


28.

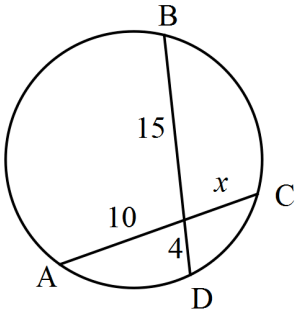


Solve for x.

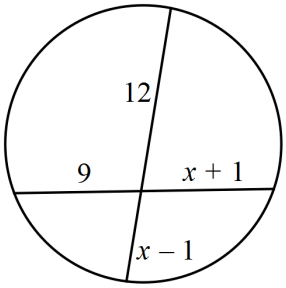
29.



30.



31.



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

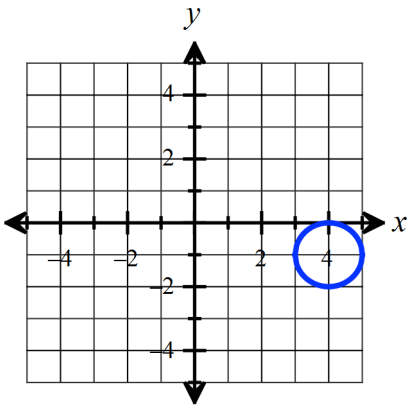
32. Center: $(0, 4)$, Radius: 2

Equation: _____

33. Center: $(-3, -8)$, Radius: 6

Equation: _____

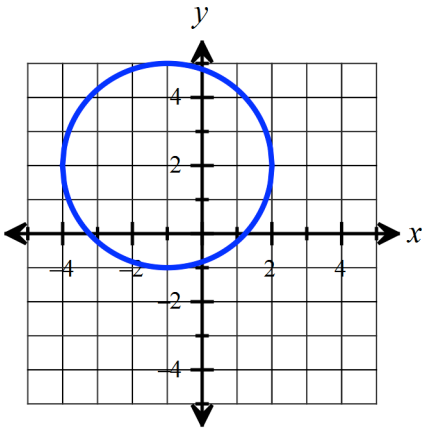
34.



Center: _____ Radius: _____

Equation: _____

35.



Center: _____ Radius: _____

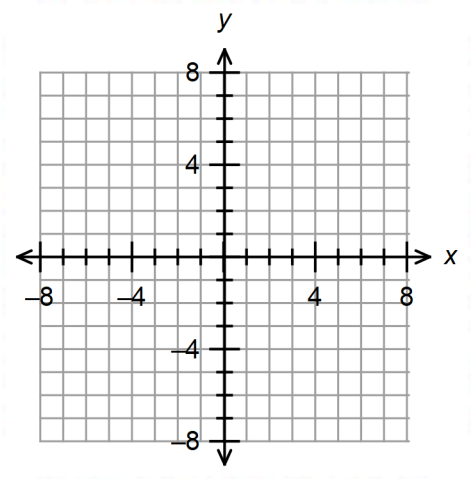
Equation: _____

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

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

Center: _____

Radius: _____



37. $(x-4)^2+y^2=25$

Center: _____

Radius: _____