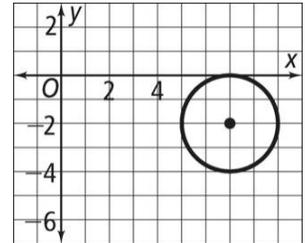*12.5.a Learning Target: Identify center and radii of circles given a standard equation of a circle.*

> Circle Equation: _____
>
> Center: _____ Radius: _____

1. Write the equation of a circle with a center at (7, -5) and a radius of 8.

2. Write the equation of a circle of the graph below.

3. Find the center and radius of the circle $(x+2)^2 + (y+11)^2 = 50$

4. Find the equation of the circle having center at (7, -2) and has a point (-1, -6)
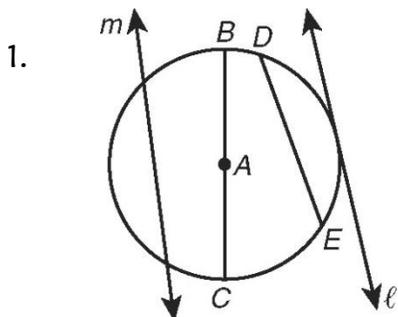
True or False?? If false, correct the statement!

5. The circle $x^2 + y^2 = 7$ has radius 7.

6. The center of the circle $(x - 6)^2 + (y + 4)^2 = 1$ lies in the second quadrant.

7. The circle $(x + 1)^2 + (y - 4)^2 = 4$ intersects the y-axis.

8. The equation of the circle centered at the origin with diameter 6 is $x^2 + y^2 = 36$.

12.1.a Learning Target: Identify tangents, secants, and chords.

1.

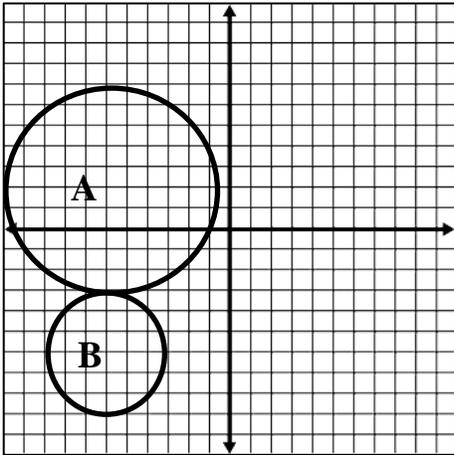Name a chord: _____

Name a tangent: _____
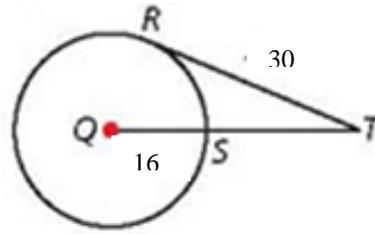
Name a radius: _____

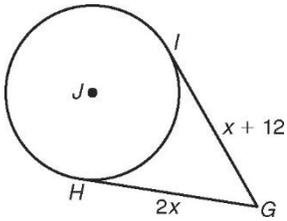Name a secant: _____

Name a diameter: _____

2. Write the equation of the tangent line.
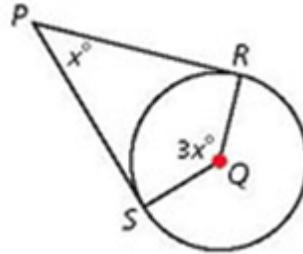

3. Line RT is tangent to circle Q. Find ST.
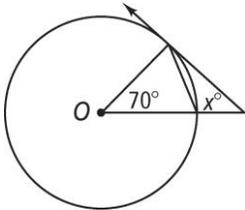

4. In the diagram below, $\overline{GH}$ and $\overline{GI}$ are tangent to ⊙J. Find GH.
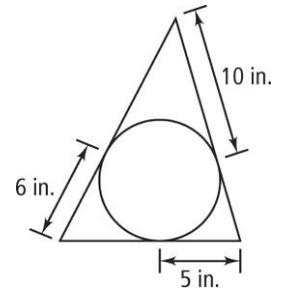

5. Lines PR and PS are tangent to circle Q. Find ∠P.
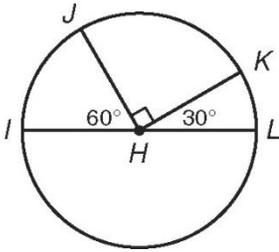

6. Given the ray is tangent to circle O, find x.

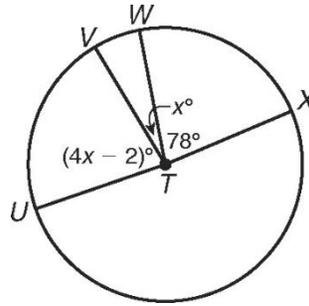7. The circle is inscribed in the triangle. Find the perimeter.

8.   Find $m\widehat{IK}$ and $m\widehat{JIL}$.

9.   Find $m\widehat{VUX}$
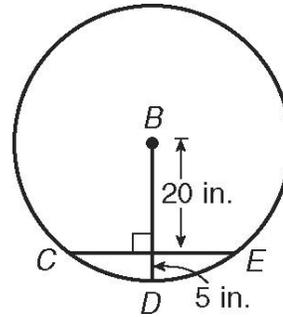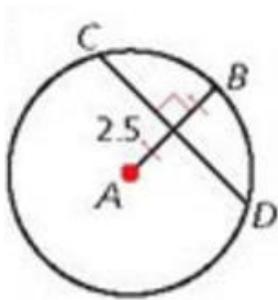
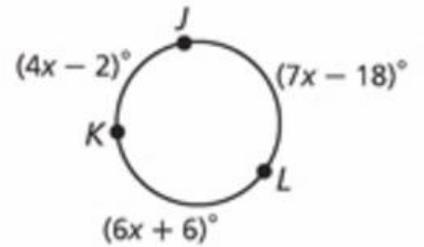10.   Find WX.
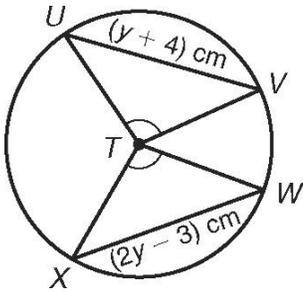
11.   Find CE.

12. Find CD.

13. Find $\widehat{JL}$

Remember to study from your notes and homework as well! Good Luck!