Geometry

12.1-12.3   Study Guide

Name:_____

1.

Name a chord: _____

Name a tangent: _____

Name a radius: _____

Name a secant: _____

Name a diameter: _____

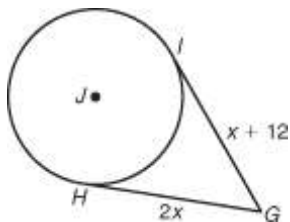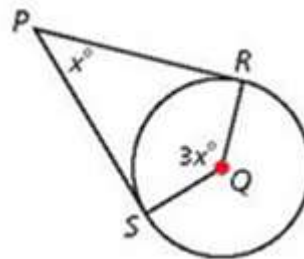2.   Write the equation of the tangent line.
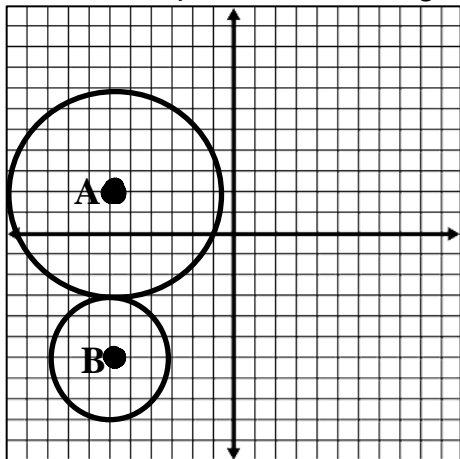
3.   Line RT is tangent to circle Q. Find ST.

30

16
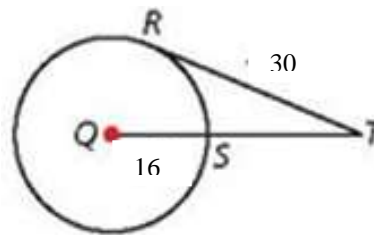
4.   In the diagram below, $\overline{GH}$ and $\overline{GI}$ are tangent to $\odot J$. Find GH.
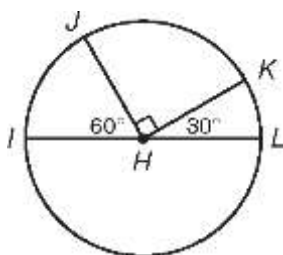
x + 12

2x

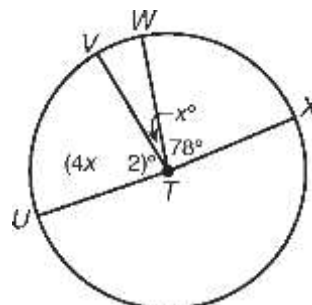5.   Lines PR and PS are tangent to circle Q. Find ∠P.

$x°$

$3x°$

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

60°   30°

7.   Find $m\widehat{VUX}$

$x°$

$(4x   2)°$ 78°

8. Find WX.
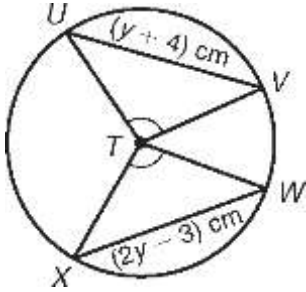
9. Find CE.
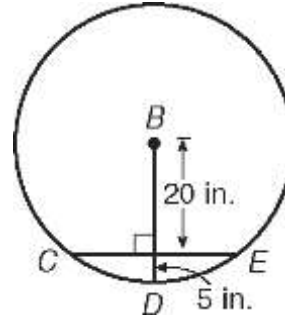
10. The central angle of an arc measures 75 degrees. The radius of the circle measures 3 meters. What is the area of the sector?

11. If the area of the sector is 32π, with a central angle of $180°$, find the radius of the circle.

12. Find the area of Segment AB

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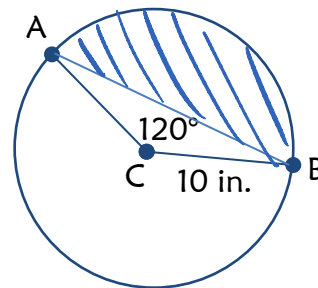
13. An arc measures 125 degrees in a circle with a radius of 36 cm. What is the length of the arc?

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