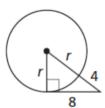
Geometry Chapter 10 Review – Circles

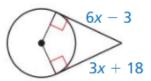
- 1. Use the figure to name each of the following:
 - a. Tangent
 - b. Secant
 - c. Chord



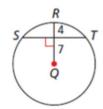
- 2. G is the center of the circle. Find each of the following and determine if it represents a major arc, minor arc, or semicircle:
 - a. $m\widehat{KM}$
 - b. $m\widehat{HMK}$
 - c. $m\widehat{J}\widehat{K}$
 - d. $m\widehat{MJK}$
 - e. $m\widehat{HML}$
- 3. Find the value of r.



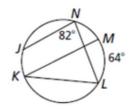
- 4. Using the figure to the right:
 - a. Solve for x.



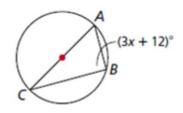
- b. If the If the radius of the circle is 15 units, what is the distance from the center of the circle to the external point where the two tangents meet?
- 5. Q is the center of the circle. Find the length of chord ST. Then, find the area of Triangle SQT.



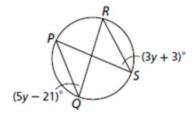
- 6. Find each of the following:
 - a. $m\widehat{J}L$
 - b. $m \angle MKL$



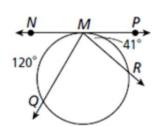
7. Solve for x.



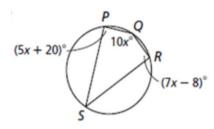
8. Find $m \angle RSP$.



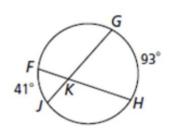
- 9. Find each of the following:
 - a. $m\widehat{MR}$
 - b. $m \angle QMR$



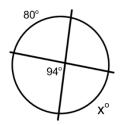
10. The quadrilateral is inscribed in the circle. Find $m \angle Q$.



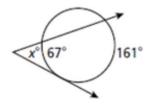
11. Find $m \angle GKH$.

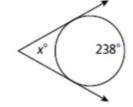


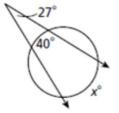
12. Solve for x.



13. Find the value of x for each figure below.

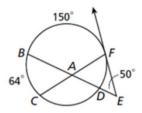




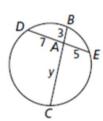


14. Use the figure to the right to find each measure:

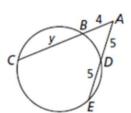
- a. $m\widehat{DF}$
- b. $m\widehat{CD}$



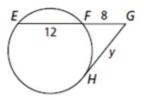
15. Solve for y and find the length of chord BC.



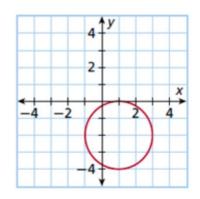
16. Solve for y.

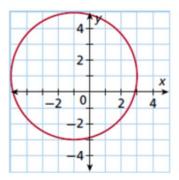


17. Solve for y.



18. Write the equation for the circle in each graph below:





- 19. Write the equation of a circle that:
 - a. Passes through (2, 2) and has a center at (1, 1).
 - b. Passes through (-5, 1) and has a center at (1, -2).
- 20. Write the equation for each circle from the given equation below. Identify the radius and the center.

a.
$$x^2 + y^2 - 20x - 4y + 30 = 0$$

b.
$$x^2 + y^2 - 6x - 28y + 185 = 0$$