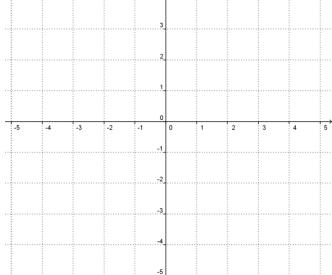
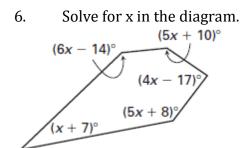
Geometry Chapter 8, 10 Cumulative Review

- 1. Find the sum of the interior angles of a convex decagon.
- 2. Find the sum of the exterior angles of a convex pentagon.
- 3. Find the measure of each interior angle of a regular 16-gon.

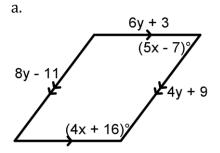
Name\_

- 4. Find the measure of each exterior angle of a regular nonagon.
- 5. Find the slope of each line. Classify each pair of lines as either parallel, perpendicular, or neither parallel nor perpendicular. Line 1: (-3, -1) and (3, 3) Line 2: (-2, 2) and (0, -1) Line 3: (0, 4) and (2, 1) Line 4: (-3, -4) and (1, -1)

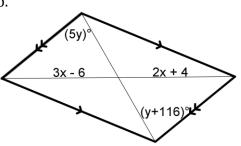




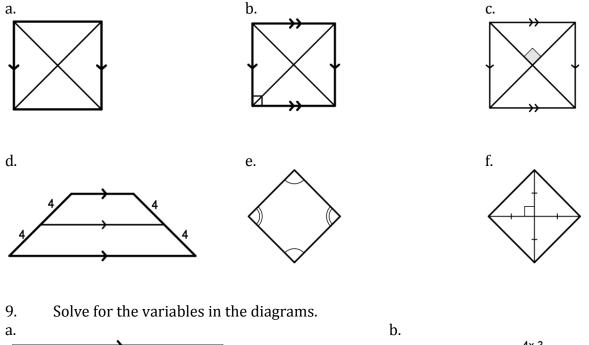
7. Solve for the variables in the diagram.



b.

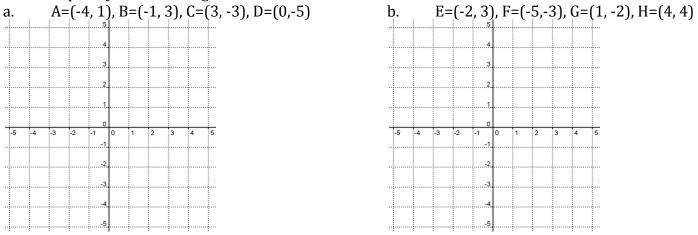


8. Determine the most specific classification that can be used for the given quadrilateral based only upon the markings.

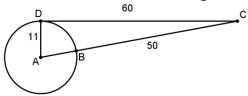




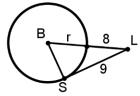
10. Graph the four points, then determine the most specific classification for the quadrilateral. Explain your reasoning.



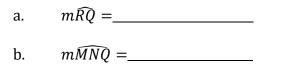
Determine if  $\overline{CD}$  is tangent to  $\bigcirc A$ . Explain your reasoning. 11.



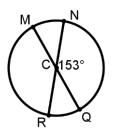
Determine the radius of  $\bigcirc B$  if  $\overline{SL}$  is tangent. 12.



Determine the following measures of  $\bigcirc C$ : 13.



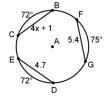
 $m\widehat{RMQ} =$ \_\_\_\_\_ с.



In  $\bigcirc A \ \overline{CD} \cong \overline{HG}$ , FG = 10, AF = 2x, AE = 8, and CD = 6x - 4. Use this information to find the 14. following values:



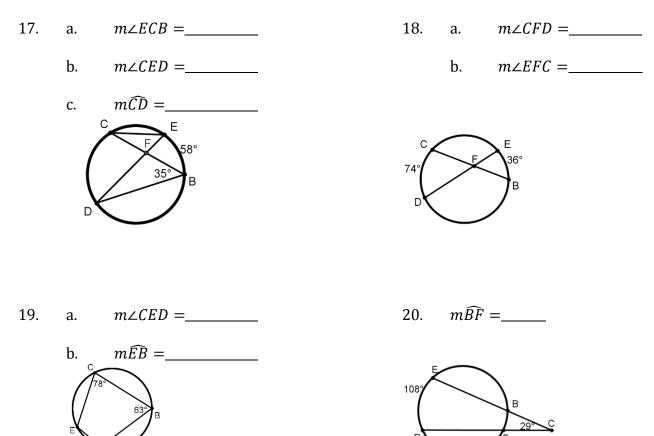
15. Write an equation and solve for *x*. Explain your reasoning in setting up the equation.

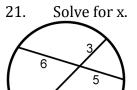


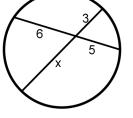
Determine the following measures in  $\bigcirc A$ :  $m\widehat{BD} = \_$   $m\widehat{CD} = \_$ 16.

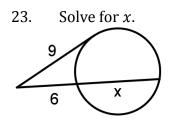


For questions 17-20 find the measure of each angle or arc.









Solve for y. 22.

