

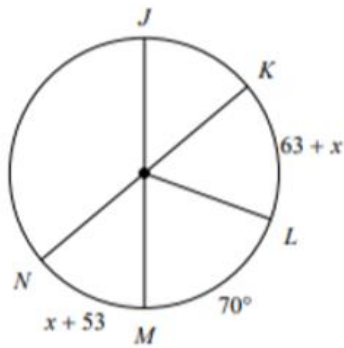
Equation of a Circle:

1. Write the equation of a circle with center (3, -4) and passing through (6, 2).
2. Write the equation of a circle with (5, 1) and (3, -1) as the endpoints of the diameter.
3. Write the equation of a circle with center (6, 3) and area  $25\pi$ .
4. Write the equation of a circle with a center (2, 6) and tangent to the line  $y=10$ .
5. Write the equation of the circle in standard form:  $x^2 + y^2 + 16x - 22y - 20 = 0$
6. Write the equation of the circle in standard form:  $x^2 + y^2 - 12x + 8y + 32 = 0$

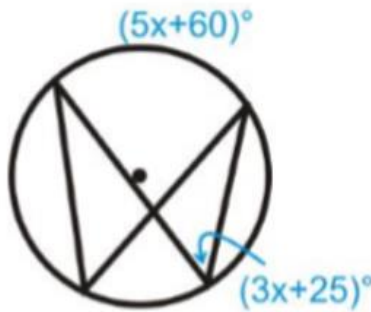
Properties of Circles:

7. Find

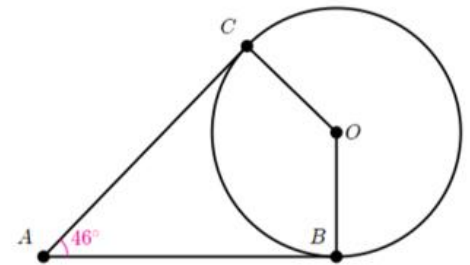
$m\widehat{LNK}$



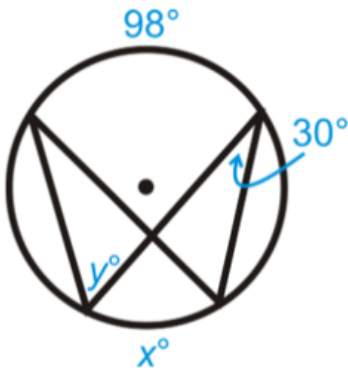
8. Find x.



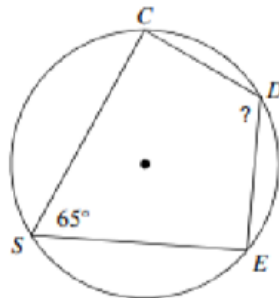
9. Find  $m\angle COB$



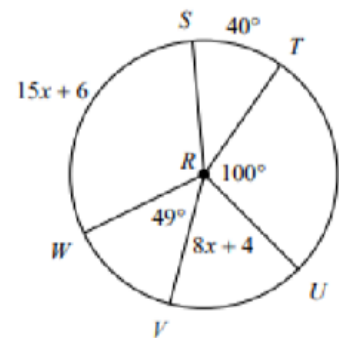
10. Find x and y.



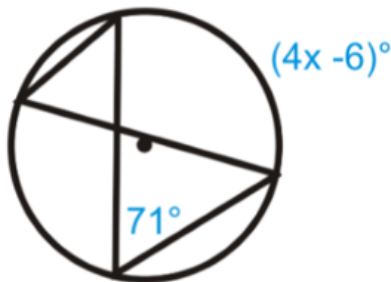
11. Find  $m\angle CDE$



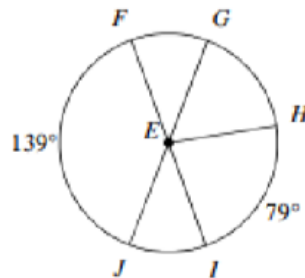
12. Find  $m\angle URV$



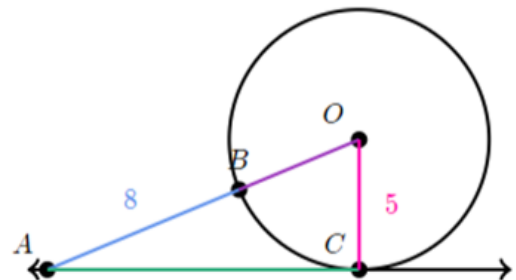
13. Find x.



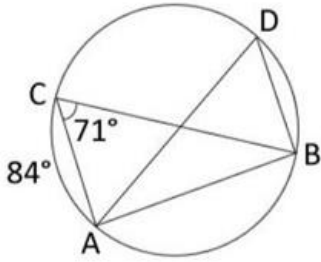
14. Find  $m\angle IEJ$



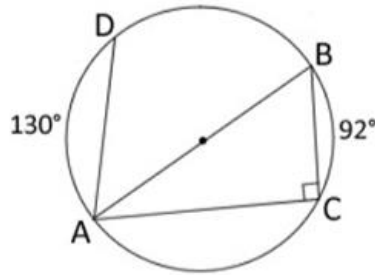
15. Find  $\overline{AC}$



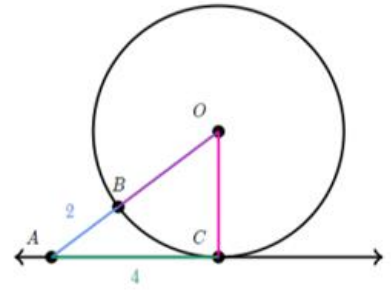
16. Find  $m\angle ADB$



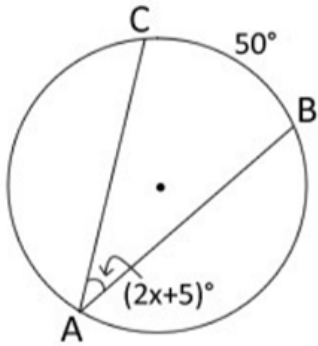
17. Find  $m\angle DAB$



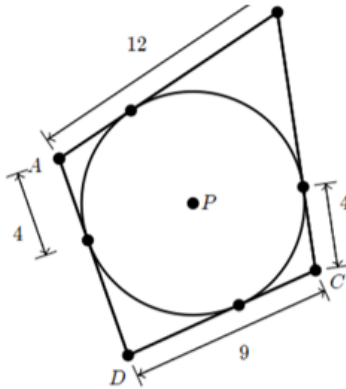
18.  $\overleftrightarrow{AC}$  is tangent to circle  $O$  at point  $C$ .  
What is the length of  $\overline{OC}$ ?



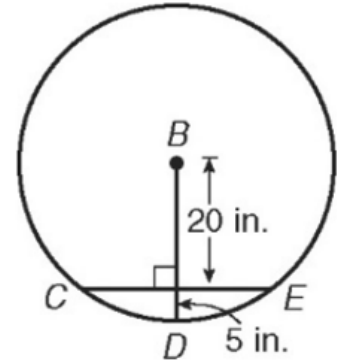
19. Find  $x$ .



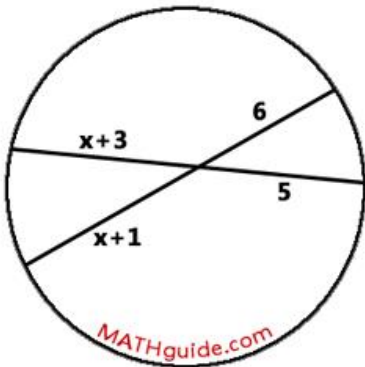
20. Find the perimeter of the quadrilateral.



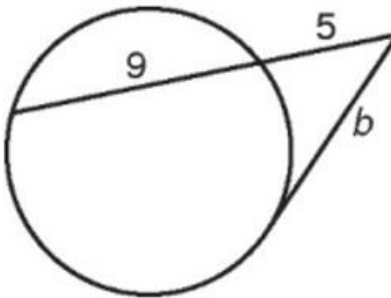
21. Find the length of the chord. Then find  $m\angle CBE$ .



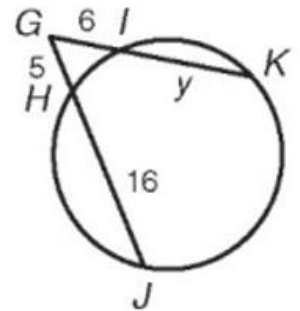
22. Solve for  $x$ .



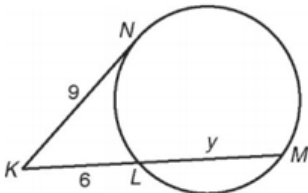
23. Solve for  $b$ .



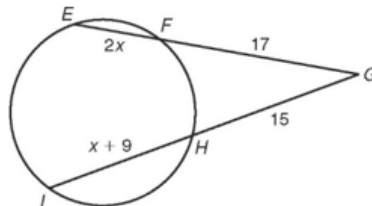
24. Solve for  $y$ .



25. Solve for  $y$ .



26. Find EG.



28. First, convert the degrees to radians. Then find the area of the shaded sector.

27. Find the arc length

