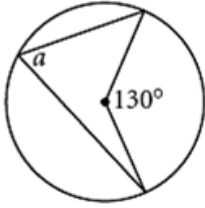


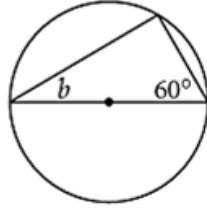
9.4 INSCRIBED ANGLES & POLYGONS

Find the value of the variable(s).

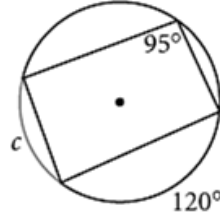
1. Find a



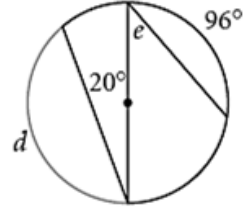
2. Find b



3. Find c

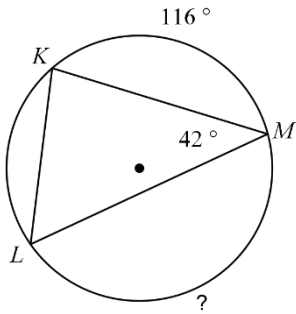


4. Find d & e

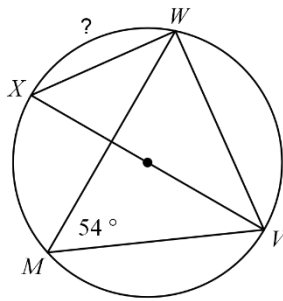


Find the measure of the indicated angle or arc.

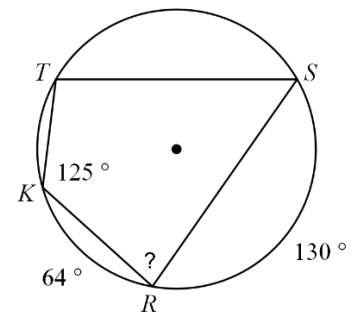
5.



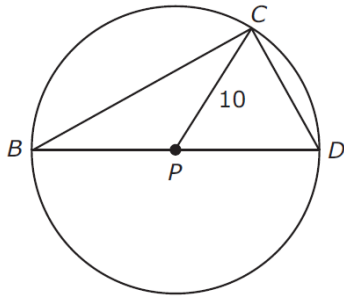
6.



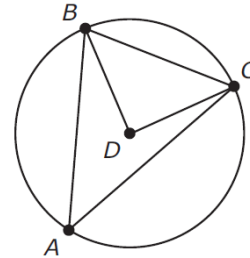
7.



8. In $\odot P$, $PC = 10$, $m\angle BCD = x + 54$, and $m\angle CBD = x$. Find x , $m\widehat{CD}$, and $m\angle BPC$.

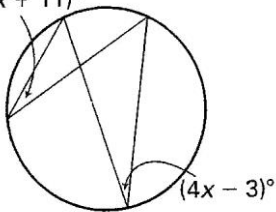


9. $\triangle ABC$ is inscribed in $\odot D$. If $m\angle CBD = 44^\circ$, find $m\angle BAC$.

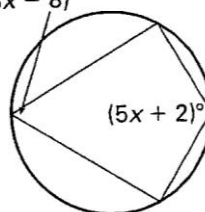


Set up and solve an equation to find the value of the variable(s).

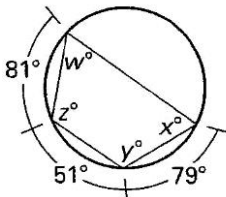
10. $(2x + 11)^\circ$



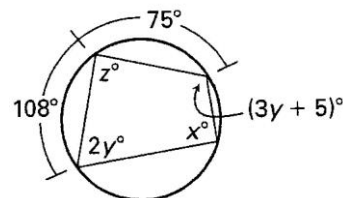
11. $(3x - 8)^\circ$



12.

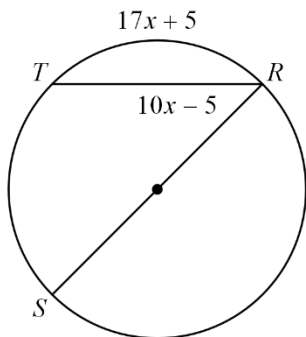


13.

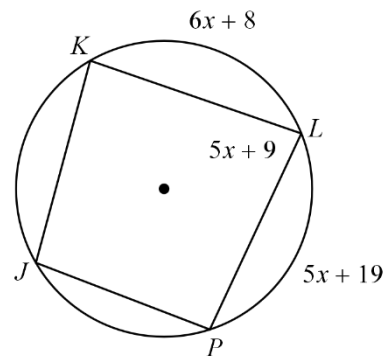


Set up and solve an equation to find the value of x . Then find the measure of the indicated angle or arc.

14. $m\widehat{RT}$

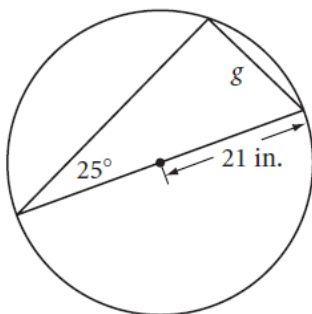


15. $m\widehat{KL}$

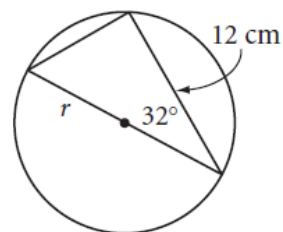


Use the Inscribed Right Triangle Theorem and a trig ratio to find the value of the variable. Round your answer to two decimal places.

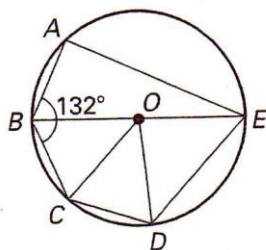
16. Find g



17. Find r



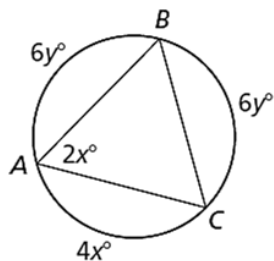
18. In the figure below, a pentagon is inscribed in $\odot O$, $\overline{AB} \cong \overline{BC} \cong \overline{CD}$ and $m\angle ABC = 132^\circ$.



Find $m\angle AEB$

Find $m\angle COD$

19. Use the Inscribed Angle Theorem to set up and solve a system of equations to find the values of x and y .



20. Use the Inscribed Quadrilateral Theorem to set up and solve a system of equations to find the values of x and y .

