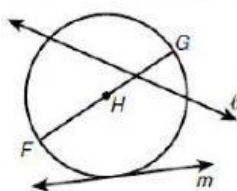


Identify each line or segment that intersects each circle.

1.



$\overline{FG}$ : \_\_\_\_\_

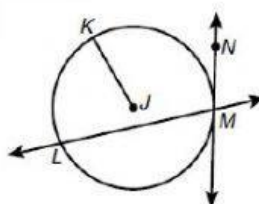
$\overline{GH}$ : \_\_\_\_\_

$\overline{FH}$ : \_\_\_\_\_

line  $\ell$ : \_\_\_\_\_

line  $m$ : \_\_\_\_\_

2.



$\overline{JK}$ : \_\_\_\_\_

$\overline{LM}$ : \_\_\_\_\_

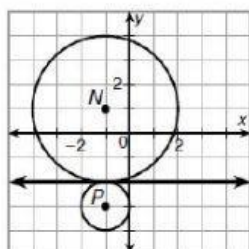
$\overleftrightarrow{LM}$ : \_\_\_\_\_

$\overleftrightarrow{NM}$ : \_\_\_\_\_

Find the length of each radius. Identify the point of tangency and write the equation of the tangent line at that point.

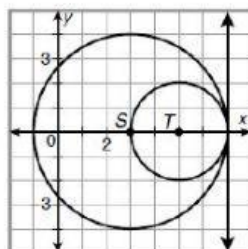
3. radius  $\odot N$  = \_\_\_\_\_ radius  $\odot P$  = \_\_\_\_\_

Pt of tangency: \_\_\_\_\_ equation \_\_\_\_\_



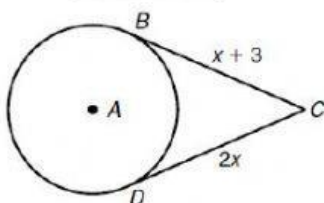
4. radius  $\odot S$  = \_\_\_\_\_ radius  $\odot T$  = \_\_\_\_\_

Pt of tangency: \_\_\_\_\_ equation \_\_\_\_\_

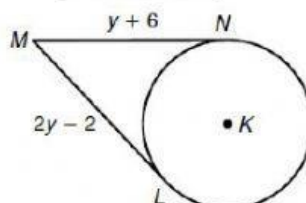


The segments in each figure are tangent to the circle. Find each length.

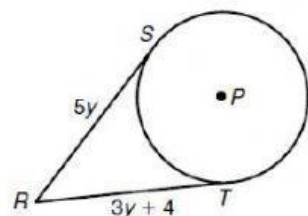
5.  $BC$  = \_\_\_\_\_



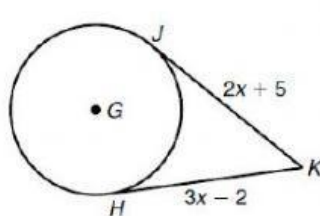
6.  $LM$  = \_\_\_\_\_



7.  $RS$  = \_\_\_\_\_



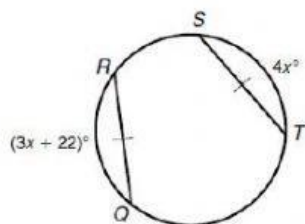
8.  $JK$  = \_\_\_\_\_



#5 for Tic-Tac-Toe Board

Find each measure.

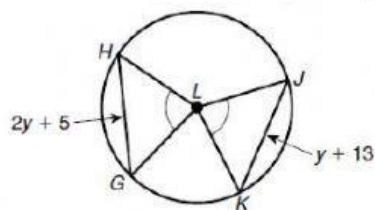
9.  $\overline{QR} \cong \overline{ST}$ . Find  $m\widehat{QR} =$  \_\_\_\_\_



Geometry Ch 11

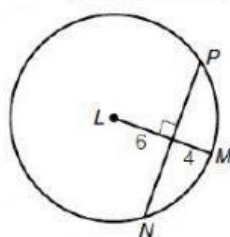
Name \_\_\_\_\_

10.  $\angle HLG \cong \angle KLJ$ . Find  $GH =$  \_\_\_\_\_

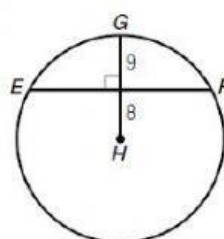


Find each length to the nearest tenth.

11.  $NP =$  \_\_\_\_\_

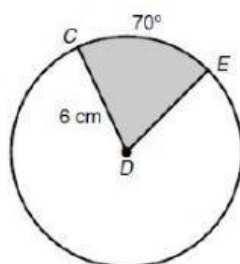


12.  $EF =$  \_\_\_\_\_

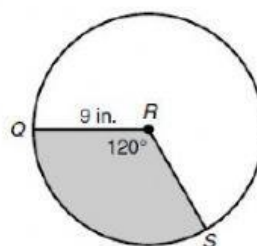


Find the area of each sector. Give your answer in terms of  $\pi$  and rounded to the nearest hundredth.

13. Sector CDE = \_\_\_\_\_



14. Sector QRS = \_\_\_\_\_



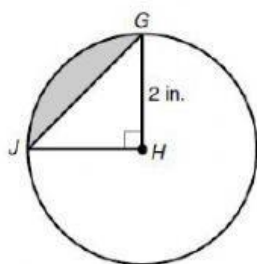
#5 for Tic-Tac-Toe Board

Geometry Ch 11

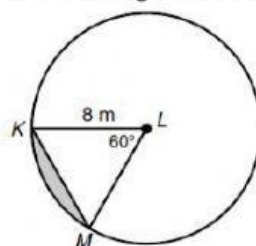
Name \_\_\_\_\_

Find the area of each segment to the nearest hundredth.

15. Area segment JHG = \_\_\_\_\_

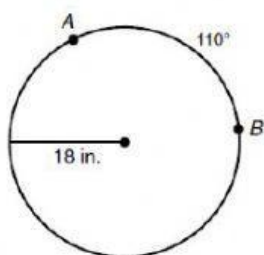


16. Area segment KLM = \_\_\_\_\_

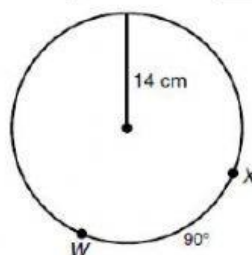


Find each arc **length** (not measure). Give your answer in terms of  $\pi$  and rounded to the nearest hundredth.

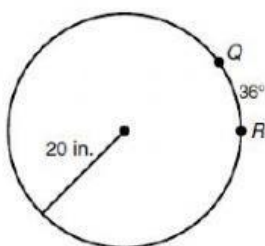
17. Length of  $\widehat{AB}$  = \_\_\_\_\_



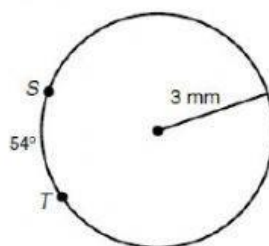
18. Length of  $\widehat{WX}$  = \_\_\_\_\_



19. Length of  $\widehat{QR}$  = \_\_\_\_\_



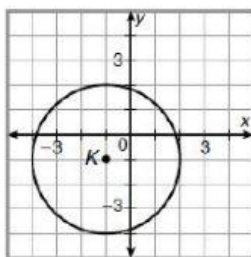
20. Length of  $\widehat{ST}$  = \_\_\_\_\_



#5 for Tic-Tac-Toe Board

Write the equation of each circle.

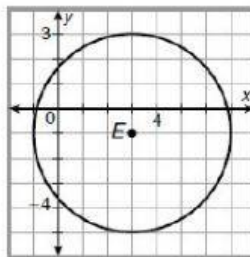
21.



Geometry Ch 11

Name \_\_\_\_\_

22.



23.

⊙*T* with center *T*(4, 5) and radius 8

24.

⊙*B* that passes through (3, 6) and has center *B*(-2, 6)

Graph each equation.

25.  $(x - 1)^2 + (y - 2)^2 = 9$

26.  $(x - 3)^2 + (y + 1)^2 = 4$

