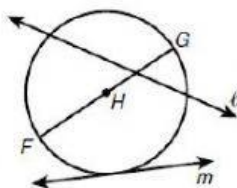


Identify each line or segment that intersects each circle.

1.



\overline{FG} : _____

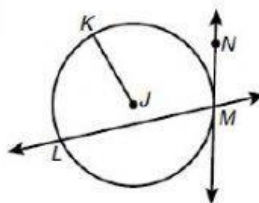
\overline{GH} : _____

\overline{FH} : _____

line ℓ : _____

line m : _____

2.



\overline{JK} : _____

\overline{LM} : _____

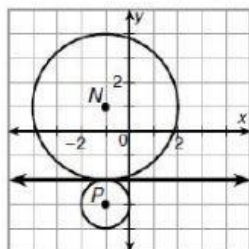
\overleftrightarrow{LM} : _____

\overleftrightarrow{NM} : _____

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

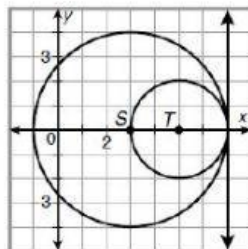
3. radius $\odot N$ = _____ radius $\odot P$ = _____

Pt of tangency: _____ equation _____



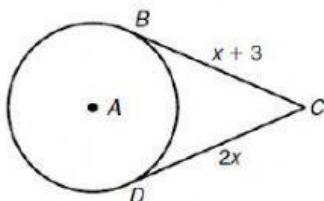
4. radius $\odot S$ = _____ radius $\odot T$ = _____

Pt of tangency: _____ equation _____

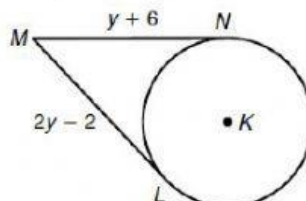


The segments in each figure are tangent to the circle. Find each length.

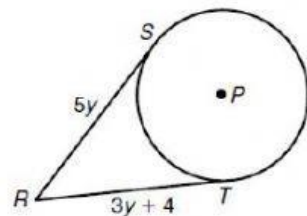
5. BC = _____



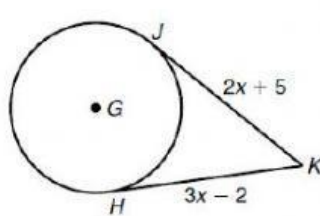
6. LM = _____



7. RS = _____



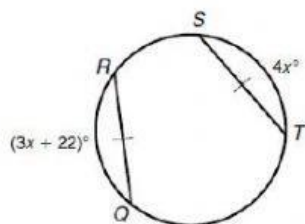
8. JK = _____



#5 for Tic-Tac-Toe Board

Find each measure.

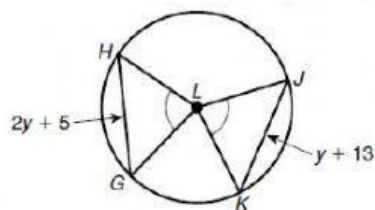
9. $\overline{QR} \cong \overline{ST}$. Find $m\widehat{QR} =$ _____



Geometry Ch 11

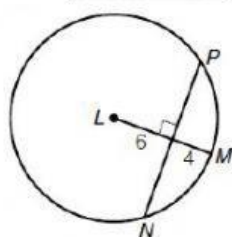
Name _____

10. $\angle HLG \cong \angle KLJ$. Find $\widehat{GH} =$ _____

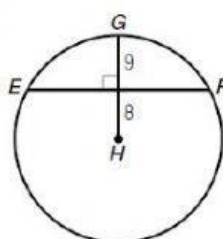


Find each length to the nearest tenth.

11. $NP =$ _____

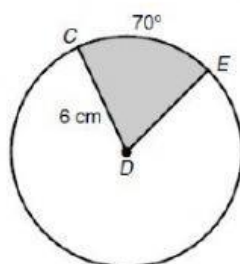


12. $EF =$ _____

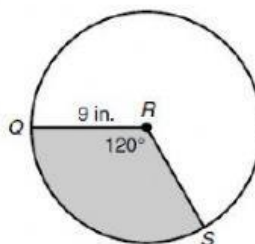


Find the area of each sector. Give your answer in terms of π and rounded to the nearest hundredth.

13. Sector CDE = _____



14. Sector QRS = _____



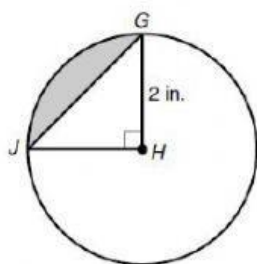
#5 for Tic-Tac-Toe Board

Geometry Ch 11

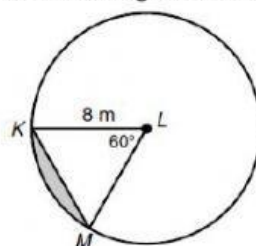
Name _____

Find the area of each segment to the nearest hundredth.

15. Area segment JHG = _____

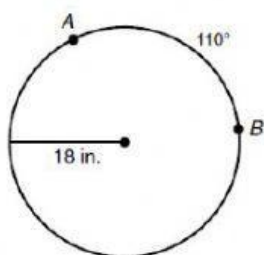


16. Area segment KLM = _____

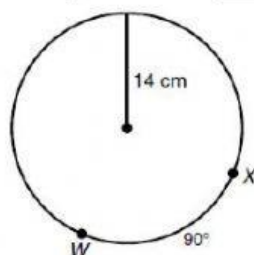


Find each arc **length** (not measure). Give your answer in terms of π and rounded to the nearest hundredth.

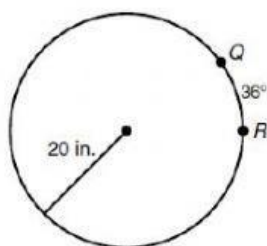
17. Length of \widehat{AB} = _____



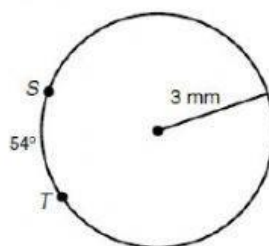
18. Length of \widehat{WX} = _____



19. Length of \widehat{QR} = _____



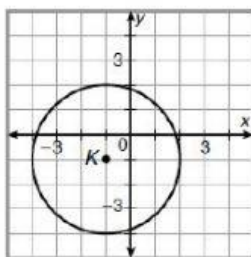
20. Length of \widehat{ST} = _____



#5 for Tic-Tac-Toe Board

Write the equation of each circle.

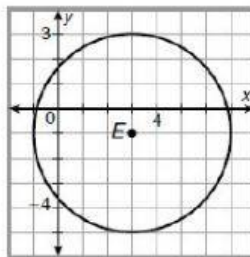
21.



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

