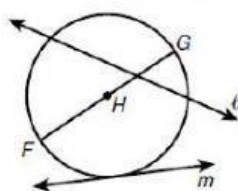


Identify each line or segment that intersects each circle.

1.



$\overline{FG}$: _____

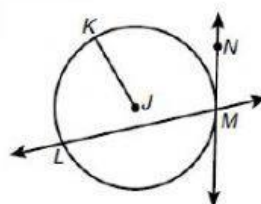
$\overline{GH}$: _____

$\overline{FH}$: _____

line ℓ : _____

line m : _____

2.



$\overline{JK}$: _____

$\overline{LM}$: _____

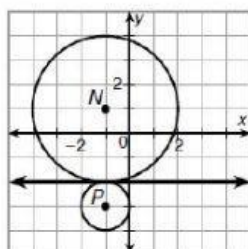
$\overleftrightarrow{LM}$: _____

$\overleftrightarrow{NM}$: _____

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

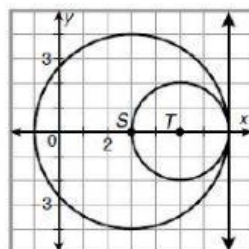
3. radius $\odot N$ = _____ radius $\odot P$ = _____

Pt of tangency: _____ equation _____



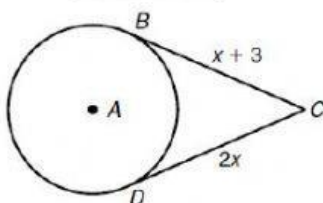
4. radius $\odot S$ = _____ radius $\odot T$ = _____

Pt of tangency: _____ equation _____

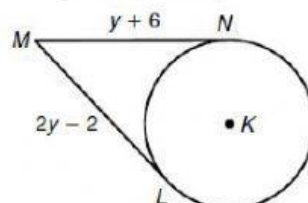


The segments in each figure are tangent to the circle. Find each length.

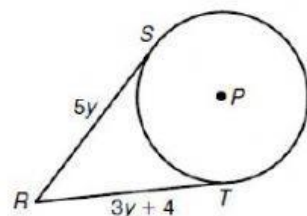
5. BC = _____



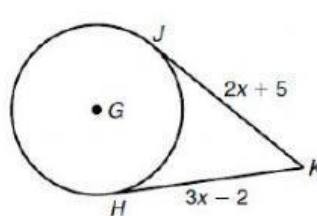
6. LM = _____



7. RS = _____



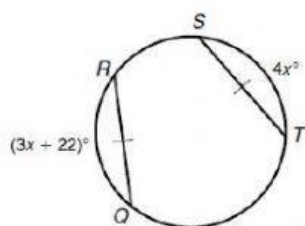
8. JK = _____



#5 for Tic-Tac-Toe Board

Find each measure.

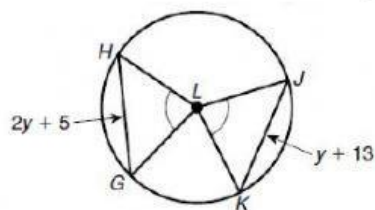
9. $\overline{QR} \cong \overline{ST}$. Find $m\widehat{QR} =$ _____



Geometry Ch 11

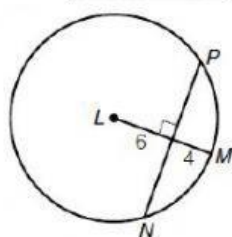
Name _____

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

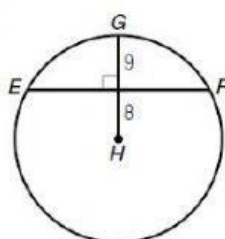


Find each length to the nearest tenth.

11. $NP =$ _____

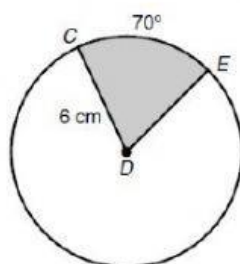


12. $EF =$ _____

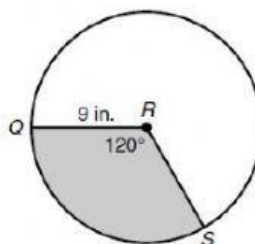


Find the area of each sector. Give your answer in terms of π and rounded to the nearest hundredth.

13. Sector CDE = _____



14. Sector QRS = _____



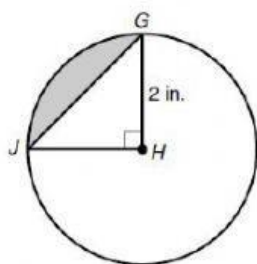
#5 for Tic-Tac-Toe Board

Geometry Ch 11

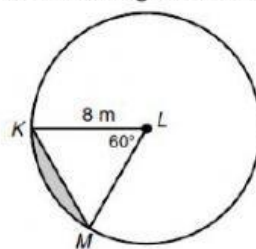
Name _____

Find the area of each segment to the nearest hundredth.

15. Area segment JHG = _____

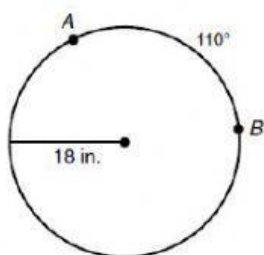


16. Area segment KLM = _____

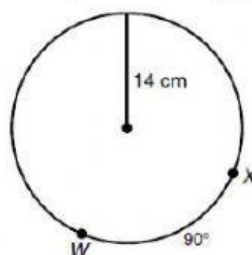


Find each arc **length** (not measure). Give your answer in terms of π and rounded to the nearest hundredth.

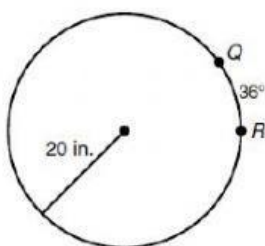
17. Length of $\widehat{AB}$ = _____



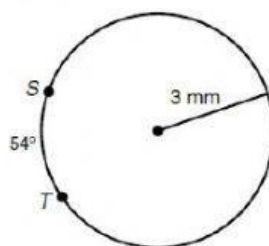
18. Length of $\widehat{WX}$ = _____



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



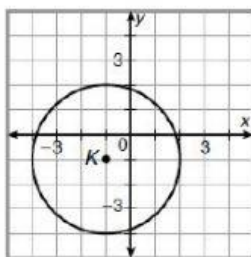
20. Length of $\widehat{ST}$ = _____



#5 for Tic-Tac-Toe Board

Write the equation of each circle.

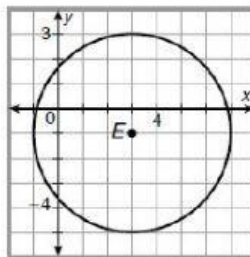
21.



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

