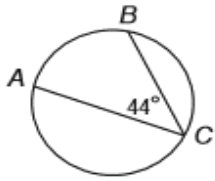


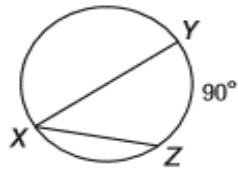
REVIEW Quiz 4 circles: 11-4 to 11-6

Find each measure.

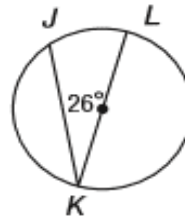
1. $m\widehat{AB}$



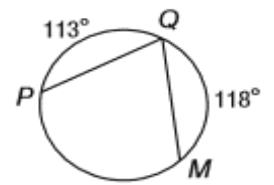
2. $m\angle X$



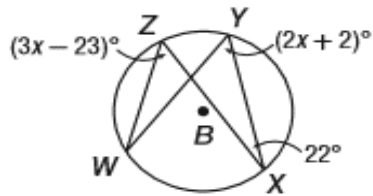
3. $m\widehat{JK}$



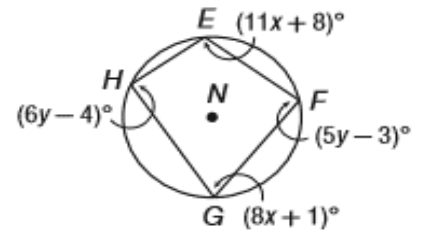
4. $m\angle Q$



5. $m\angle W$



7. $m\angle G$

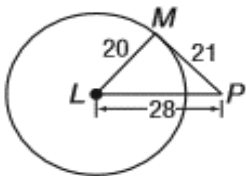


6. $m\angle Y$

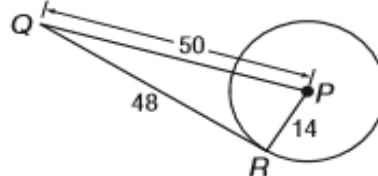
8. $m\angle H$

Determine whether each segment is tangent to the given circle. Justify your answer.

9. \overline{MP}

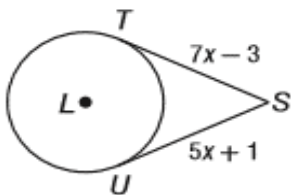


10. \overline{QR}

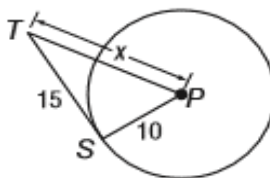


Find x . Assume that segments that appear to be tangent are tangent. Round to the nearest tenth, if necessary.

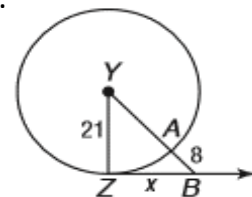
11.



12.

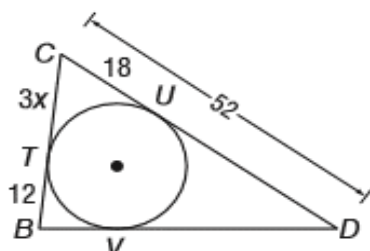


13.

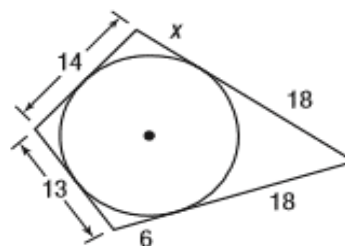


Find x , then find the perimeter.

14.

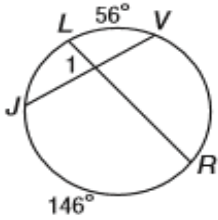


15.

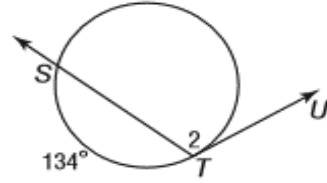


Find x . Assume that segments that appear to be tangent are tangent.

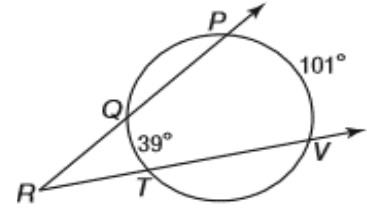
16. $m\angle 1$



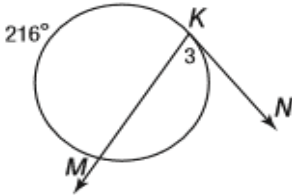
17. $m\angle 2$



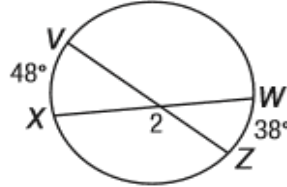
18. $m\angle R$



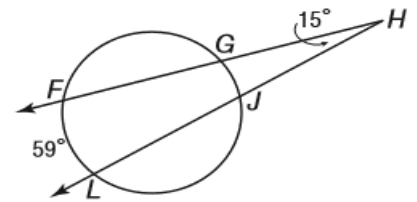
19. $m\angle 3$



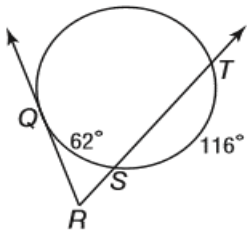
20. $m\angle 2$



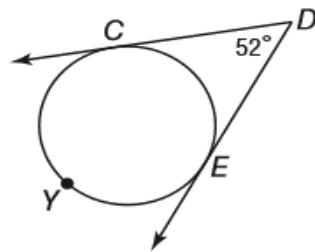
21. $m\widehat{GJ}$



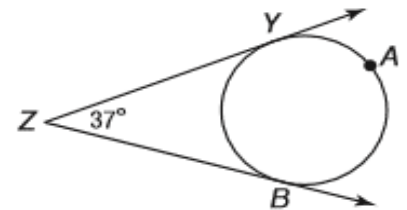
22. $m\angle R$



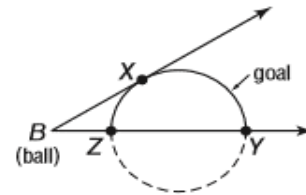
23. $m\widehat{CE}$



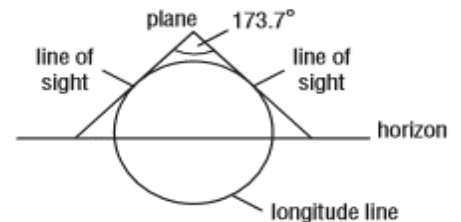
24. $m\widehat{YAB}$



25. **RECREATION** In a game of kickball, Rickie has to kick the ball through a semicircular goal to score. If $m\widehat{XZ} = 58$ and the $m\widehat{XY} = 122$, at what angle must Rickie kick the ball to score?



26. **FLYING** When flying at an altitude of 5 miles, the lines of sight to the horizon looking north and south make about a 173.7° angle. How much of the longitude line directly under the plane is visible from 5 miles high?



27. **CLOCKS** The design shown in the figure is that of a circular clock face inscribed in a triangular base. AF and FC are equal.

a. Find AB .

b. Find the perimeter of the clock.

