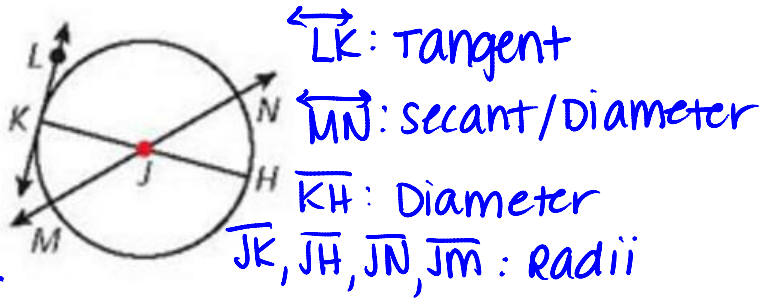
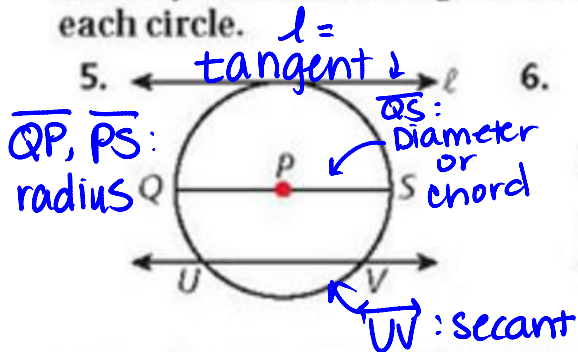


Complete the sentences below with vocabulary words from the list above.

2. An angle whose vertex is at the center of a circle is called a(n) Central ~~4~~

4. concentric circles are coplanar circles with the same center.

Identify each line or segment that intersects each circle.



Given the measures of the following segments that are tangent to a circle, find each length.

7. $AB = 9x - 2$ and $BC = 7x + 4$. Find AB .

#7) $9x - 2 = 7x + 4$
 $2x = 6$
 $x = 3$

$AB = 9(3) - 2 = 25$

8. $EF = 5y + 32$ and $EG = 8 - y$. Find EG .

#8) $5y + 32 = 8 - y$
 $24 = -6y$
 $y = -4$

$EG = 8 - (-4) = 12$

9. $JK = 8m - 5$ and $JL = 2m + 4$. Find JK .

#9) $8m - 5 = 2m + 4$

$JK = 8(\frac{3}{2}) - 5$ $6m = 9$
 $JK = 7$ $m = \frac{3}{2}$

10. $WX = 0.8x + 1.2$ and $WY = 2.4x$. Find WY .

#10) $0.8x + 1.2 = 2.4x$
 $1.2 = 1.6x$
 $x = 0.75$

$WY = 2.4(0.75) = 1.8$

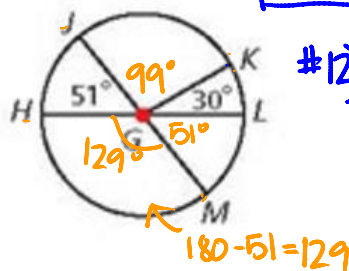
Find each measure.

11. $m\widehat{KM} = 81^\circ$

12. $m\widehat{HMK} = 210^\circ$

13. $m\widehat{JK} = 99^\circ$

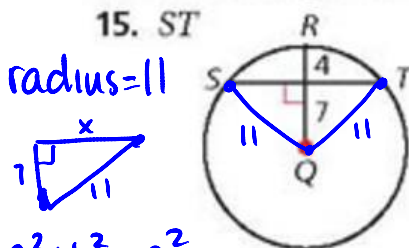
14. $m\widehat{MJK} = 279^\circ$



#12) $m\widehat{HMK} = 30 + 51 + 129$
 $m\widehat{HMK} = 210^\circ$

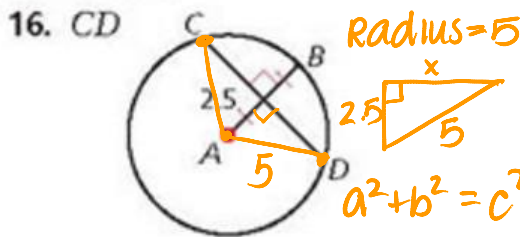
#14) $m\widehat{MJK} = 180 + 99$
 $m\widehat{MJK} = 279$

Find each length to the nearest tenth.



radius = 11
 $a^2 + b^2 = c^2$
 $7^2 + x^2 = 11^2$
 $\sqrt{x^2} = \sqrt{72}$
 $x \approx 8.49$

$ST \approx 2(8.49)$
 $ST \approx 16.97$
 $ST \approx 17.0$



Radius = 5
 $a^2 + b^2 = c^2$
 $x^2 + (2.5)^2 = 5^2$
 $\sqrt{x^2} = \sqrt{18.75}$
 $x \approx 4.33$

$CD = 2(4.33)$
 $CD \approx 8.66$
 $CD \approx 8.7$