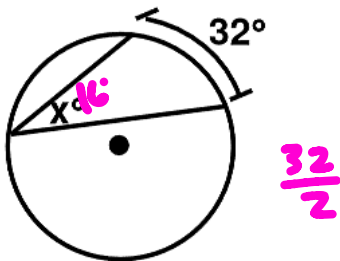


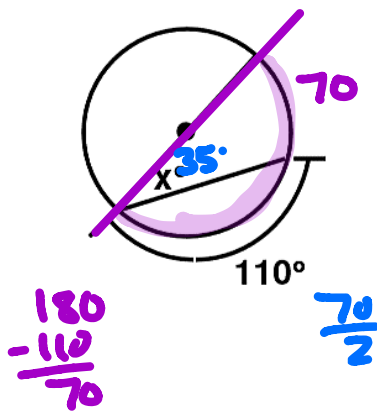
1. $m\widehat{MR}$ 110°
2. $m\widehat{RQ}$ 70°
3. $m\widehat{PQ}$ 30°
4. $m\widehat{NR}$ 180°
5. $m\widehat{NRM}$ 290°

6. Find x.



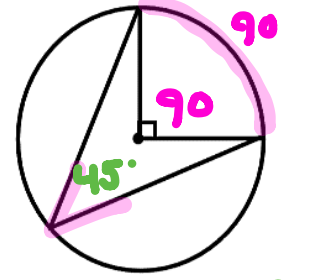
$$\frac{32}{2}$$

7. Find x.



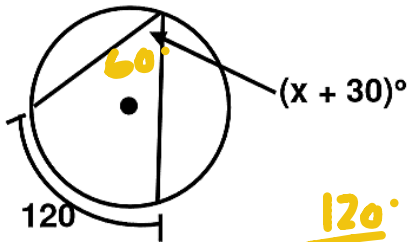
$$\frac{70}{2}$$

8. Find the inscribed angle.



$$\frac{90}{2}$$

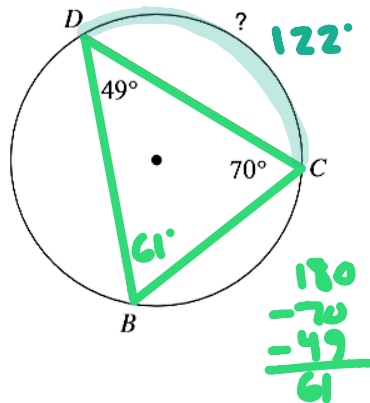
9. Solve for x.



$$\frac{120}{2}$$

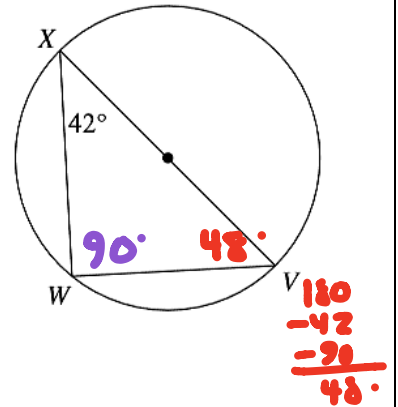
$$\begin{aligned} x + 30 &= 60 \\ -30 &\quad -30 \\ \hline x &= 30 \end{aligned}$$

10. Find $m\widehat{DC}$. $2(61)$



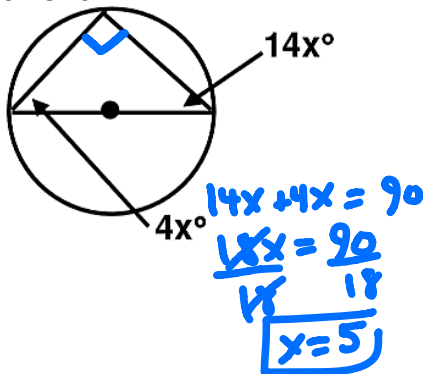
$$\begin{aligned} 180 \\ -49 \\ -70 \\ \hline 61 \end{aligned}$$

11. Find $m\angle W$ and $m\angle V$.



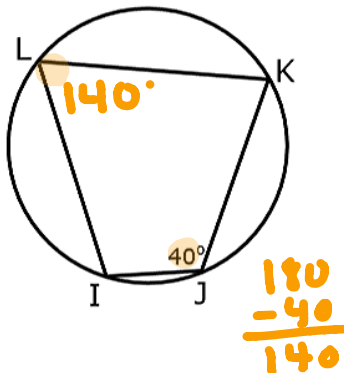
$$\begin{aligned} 180 \\ -42 \\ \hline 138 \\ \frac{138}{2} \\ \hline 69 \\ 69 - 42 \\ \hline 27 \end{aligned}$$

12. Solve for x.



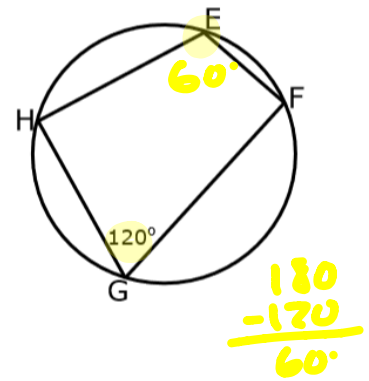
$$\begin{aligned} 14x + 4x &= 90 \\ 18x &= 90 \\ \frac{18x}{18} &= \frac{90}{18} \\ x &= 5 \end{aligned}$$

13. Find $m\angle L$



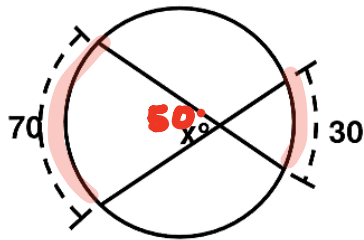
$$\begin{aligned} 180 \\ -40 \\ \hline 140 \end{aligned}$$

14. Find $m\angle E$



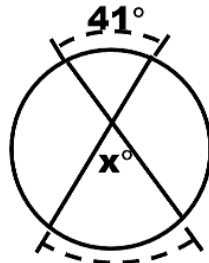
$$\begin{aligned} 180 \\ -120 \\ \hline 60 \end{aligned}$$

15. Solve for x.



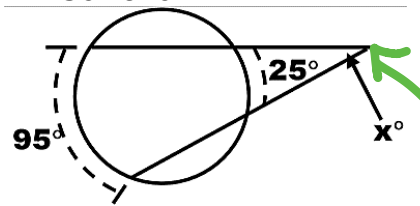
$$\frac{70 + 30}{2} = 50^\circ$$

16. Solve for x.



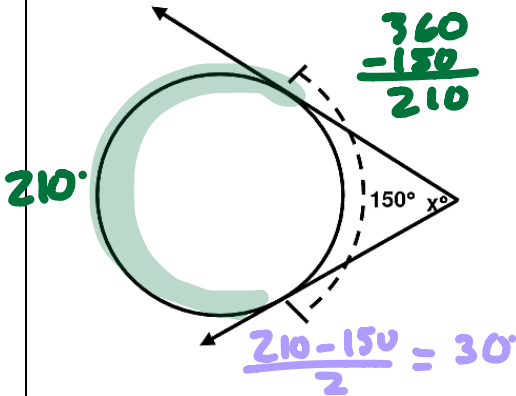
$$\frac{41 + 81}{2} = 61^\circ$$

17. Solve for x.



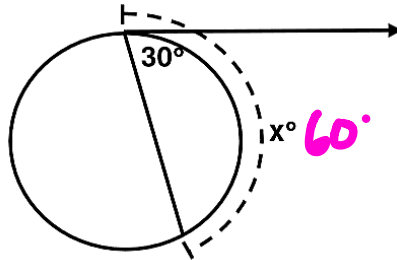
$$\frac{95 - 25}{2} = 35^\circ$$

18. Solve for x.



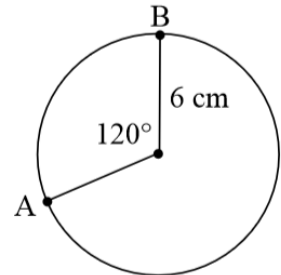
$$\frac{210 - 150}{2} = 30^\circ$$

19. Find x.



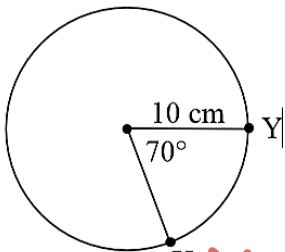
$$x = 60^\circ$$

20. Find the arc length of \widehat{AB}



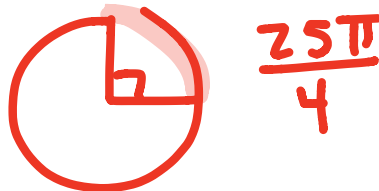
$$AL = \frac{2\pi(6)(120)}{360} = 4\pi$$

21. Find the arc length of \widehat{XY} .



$$AL = \frac{2\pi(10)(70)}{360} = \frac{35\pi}{9}$$

22. A circle has a circumference whose length is 25π . Find the length of an arc whose central angle is 90° .



$$\frac{25\pi}{4}$$

23. Find the measure of the central angle of an arc if its length is 14π and the radius is 18.

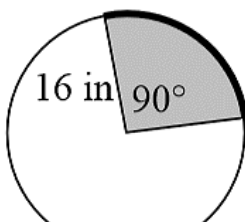
$$AL = \frac{2\pi r \theta}{360}$$

$$14\pi = \frac{2\pi(18)\theta}{360}$$

$$\frac{5040\pi}{36\pi} = \frac{2\pi(18)\theta}{36\pi}$$

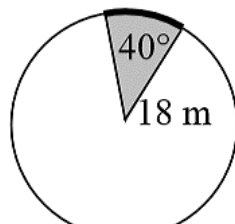
$$140 = \theta$$

24. Find the area of the sector.



$$AS = \frac{\pi(16)^2(90)}{360} = 64\pi$$

25. Find the area of the sector.



$$AS = \frac{\pi(18)^2(40)}{360} = 36\pi$$

26. If the radius of each slice of pizza is 9 inches, what is the area of one slice of pizza?

$$A = \pi r^2$$

$$= \pi(9)^2$$

$$= \frac{81\pi}{8}$$