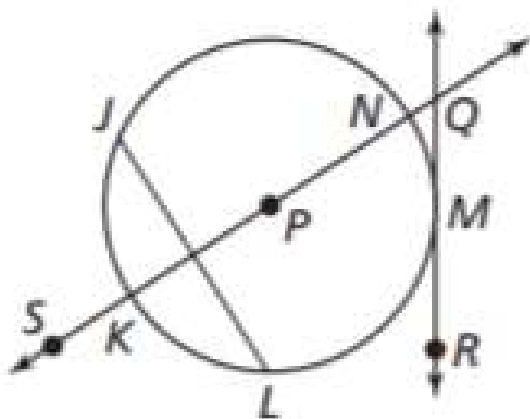


Quiz Review!
 Sections 10.1 - 10.3
 Calculator allowed



1. Name the circle. $\odot P$

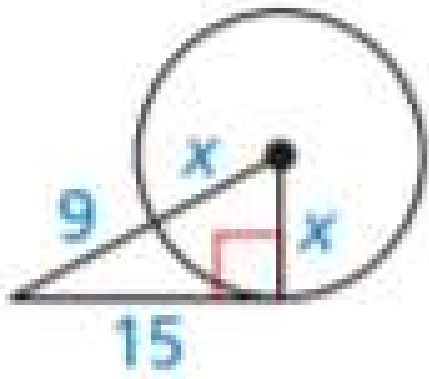
3. Name a diameter. \overline{KN}

5. Name a secant. \overleftrightarrow{SQ}

2. Name a radius. \overline{PN} or \overline{PM}

4. Name a chord. \overline{JL} or \overline{NK}

6. Name a tangent. \overleftrightarrow{QR}



Find the value of x.

$$a^2 + b^2 = c^2$$

$$x^2 + 15^2 = (x+9)^2$$

$$\cancel{x^2} + 225 = \cancel{x^2} + 18x + 81$$

$$(x+9)(x+9)$$

$$x^2 + 9x + 9x + 81$$

$$x^2 + 18x + 81$$

$$225 = 18x + 81$$

$$-81 \quad -81$$

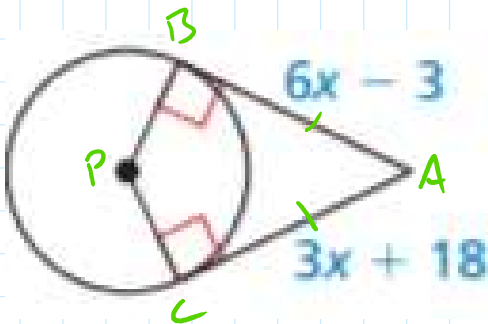
$$144 = 18x$$

$$\frac{144}{18} \quad \frac{18x}{18}$$

$$8 = x$$

$\overleftrightarrow{AB} \perp \overline{PB} \therefore \overleftrightarrow{AB}$ is a tangent to $\odot P$

Find the value of x



$$6x - 3 = 3x + 18$$

$$-3x \quad -3x$$

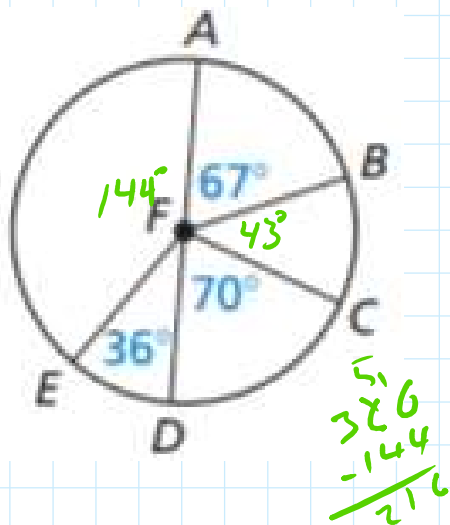
$$3x - 3 = 18$$

$$+3 \quad +3$$

$$\frac{3x}{3} = \frac{21}{3}$$

$$x = 7$$

Identify the given arc as a major arc, minor arc, or semicircle. Then find the measure of the arc.

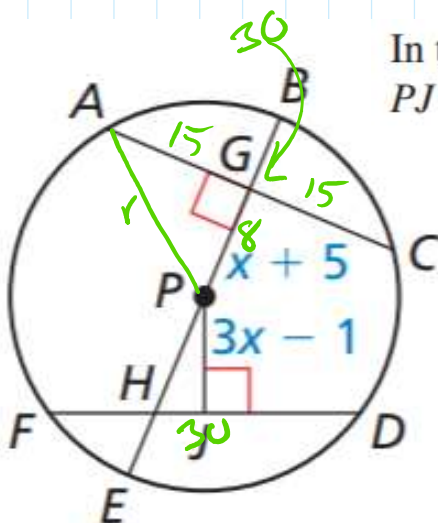


\widehat{AE} minor arc, $m\widehat{AE} = 144^\circ$

\widehat{AC} minor arc, $m\widehat{AC} = 110^\circ$

\widehat{ACE} major arc, $m\widehat{ACE} = 216^\circ$

Find the radius of the circle.



In the diagram, $AC = FD = 30$, $PG = x + 5$, and $PJ = 3x - 1$. Find the radius of $\odot P$. (Section 10.3)

$$\begin{aligned} x + 5 &= 3x - 1 \\ -x &\quad -x \\ 5 &= 2x - 1 \\ +1 &\quad +1 \\ 6 &= 2x \\ 3 &= x \end{aligned}$$

$$\begin{aligned} 9^2 + 16^2 &= r^2 \\ 8^2 + 15^2 &= r^2 \\ 64 + 225 &= r^2 \\ \sqrt{289} &= \sqrt{r^2} \\ 17 &= r \end{aligned}$$

16 total questions
Good Luck!!
