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Directions: Find the following arc measures.

1.



$$\begin{aligned} m\widehat{DE} &= 104^\circ \\ m\widehat{FE} &= 78^\circ \\ m\widehat{DEP} &= 180^\circ \\ m\widehat{CFD} &= 284^\circ \\ m\widehat{DFE} &= 256^\circ \end{aligned}$$

2.



$$\begin{aligned} m\widehat{FD} &= 149^\circ \\ m\widehat{DR} &= 155^\circ \\ m\widehat{RS} &= 111^\circ \\ m\widehat{SOR} &= 235^\circ \\ m\widehat{ROT} &= 224^\circ \end{aligned}$$

3.



$$\begin{aligned} m\widehat{KL} &= 23^\circ \\ m\widehat{LON} &= 203^\circ \\ m\widehat{ON} &= 113^\circ \\ m\widehat{ENL} &= 237^\circ \\ m\widehat{NLE} &= 157^\circ \end{aligned}$$

4.



$$\begin{aligned} m\widehat{FD} &= 17^\circ \\ m\widehat{DR} &= 125^\circ \\ m\widehat{ORL} &= 225^\circ \\ m\widehat{FR} &= 55^\circ \\ m\widehat{FRD} &= 343^\circ \end{aligned}$$

Directions: Find the value of x .

5.



$$\begin{aligned} 9x + 23 &= 149 \\ -23 &-23 \\ \hline 9x &= 126 \\ \div 9 &\div 9 \\ \hline x &= 14 \end{aligned}$$

6.



$$\begin{aligned} 21x - 9 &= 117 \\ +9 &+9 \\ \hline 21x &= 126 \\ \div 21 &\div 21 \\ \hline x &= 6 \end{aligned}$$

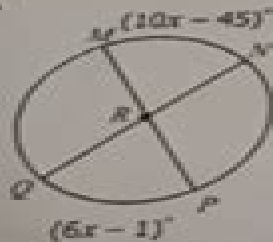
Directions: Find the value of x and each arc measure.

7.



$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\widehat{DE} &= \underline{\hspace{2cm}} \\ m\widehat{EF} &= \underline{\hspace{2cm}} \\ m\widehat{DFG} &= \underline{\hspace{2cm}} \end{aligned}$$

8.



$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\widehat{MN} &= \underline{\hspace{2cm}} \\ m\widehat{NP} &= \underline{\hspace{2cm}} \\ m\widehat{NQP} &= \underline{\hspace{2cm}} \end{aligned}$$

Lines That Intersect Circles Answer Key Number 7

F Rizvi



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