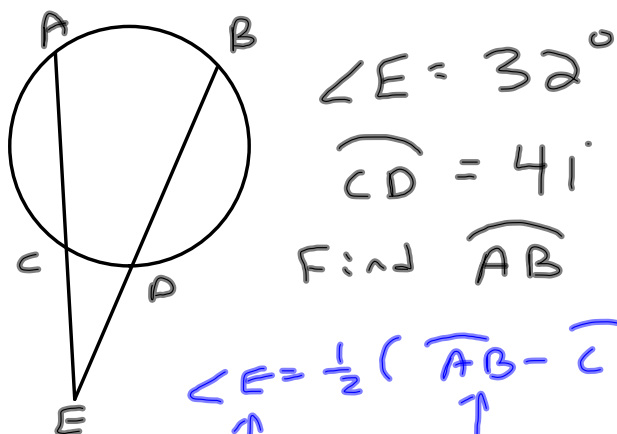
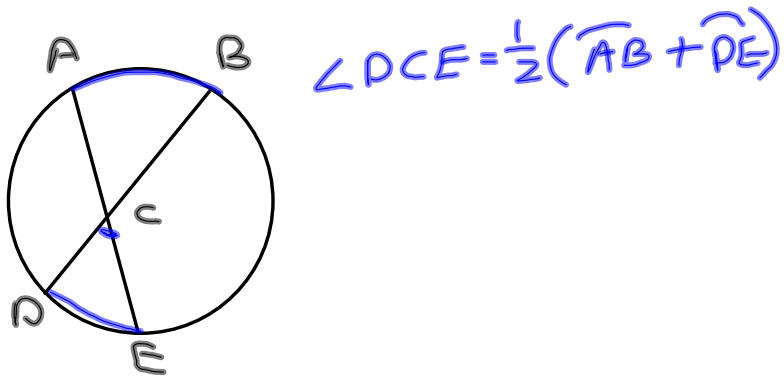
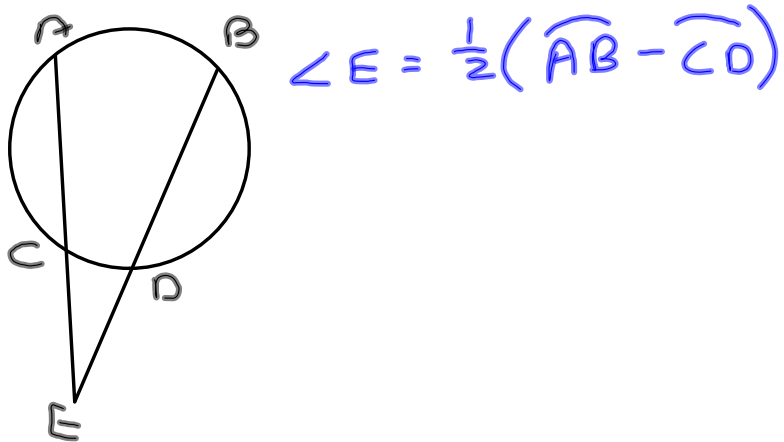


3-11-14
5th Geo

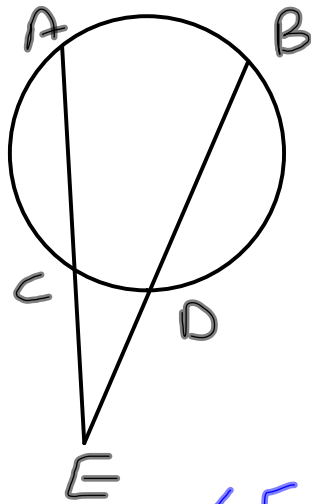


$$\angle E = \frac{1}{2}(\widehat{AB} - \widehat{CD})$$

$$2 \cdot 32 = 2 \cdot \frac{1}{2}(\widehat{AB} - 41)$$

$$64 = \widehat{AB} - 41$$

$$\begin{array}{r} 64 = \widehat{AB} - 41 \\ + 41 \qquad \qquad + 41 \\ \hline 105 = \widehat{AB} \end{array}$$



$$\widehat{AB} = 48^\circ$$

$$\angle E = 20^\circ$$

$$\widehat{CD} = ?$$

$$\angle E = \frac{1}{2} (\widehat{AB} - \widehat{CD})$$

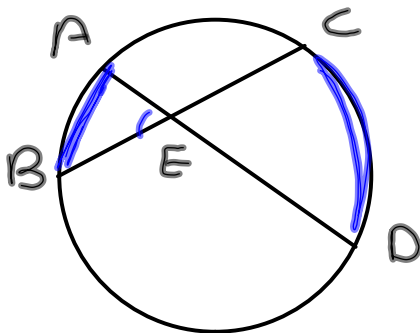
$$2 \cdot 20 = 2 \cdot \frac{1}{2} (48 - \widehat{CD})$$

$$40 = 48 - \widehat{CD}$$

$$\begin{array}{r} -44 \quad -48 \\ \hline \end{array}$$

$$-8 = -\widehat{CD}$$

$$8 = \widehat{CD}$$



$$\angle AEB = 70^\circ$$

$$\widehat{AB} = 40$$

$$\widehat{CD} = ?$$

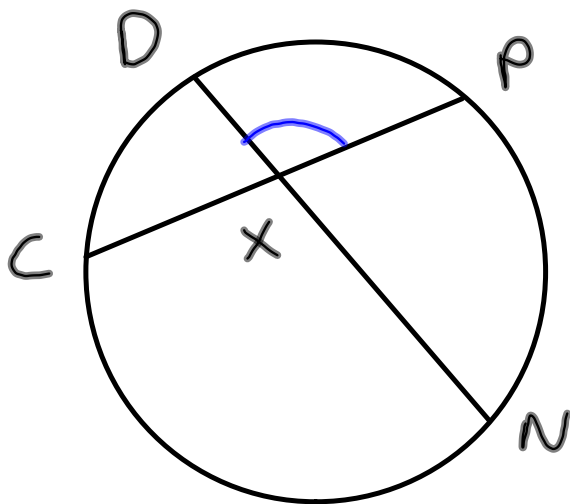
$$\angle AEB = \frac{1}{2} (\widehat{AB} + \widehat{CD})$$

$$2 \cdot 70 = 2 \cdot \frac{1}{2} (40 + \widehat{CD})$$

$$140 = 40 + \widehat{CD}$$

$$\begin{array}{r} -40 \quad -40 \\ \hline \end{array}$$

$$100 = \widehat{CD}$$



$$\angle DXP = 111^\circ$$

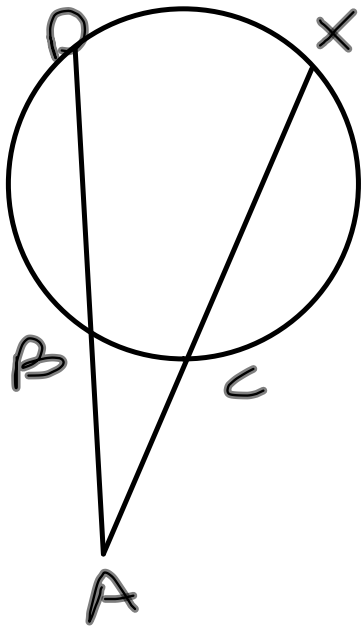
$$\widehat{DP} = 72^\circ$$

$$\widehat{CN} = ?$$

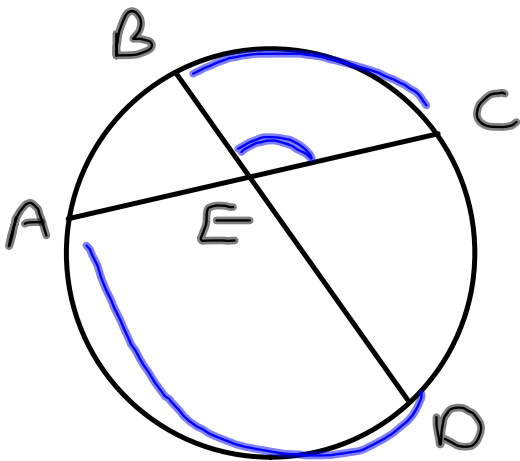
$$\angle DXP = \frac{1}{2} (\widehat{DP} + \widehat{CN})$$

$$2 \cdot 111 = 2 \cdot \frac{1}{2} (72 + \widehat{CN})$$

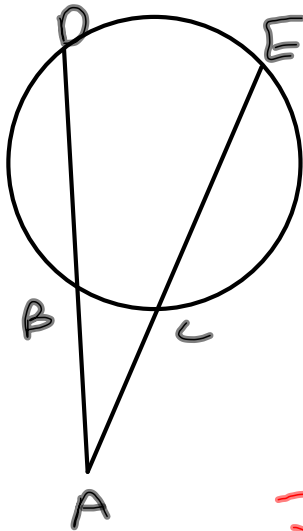
$$\begin{array}{r} 222 = 72 + \widehat{CN} \\ - \quad 72 \quad - 72 \\ \hline 150 = \widehat{CN} \end{array}$$



$$\angle A = \frac{1}{2}(\widehat{DX} - \widehat{BC})$$



$$\angle BEC = \frac{1}{2}(\widehat{BC} + \widehat{AD})$$



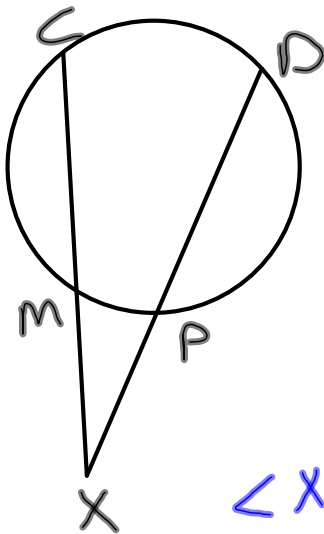
$$\angle A = 41^\circ$$

$$\widehat{BC} = 34^\circ$$

$$\angle A = \frac{1}{2}(\widehat{DE} - \widehat{BC})$$

$$2 \cdot 41 = \frac{1}{2}(\widehat{DE} - 34)$$

$$\begin{array}{r} 82 = \widehat{DE} - 34 \\ +34 \quad \quad +34 \\ \hline 116 = \widehat{DE} \end{array}$$



$$\angle X = 37^\circ$$

$$\widehat{CD} = 84^\circ$$

$$\widehat{MP} = ?$$

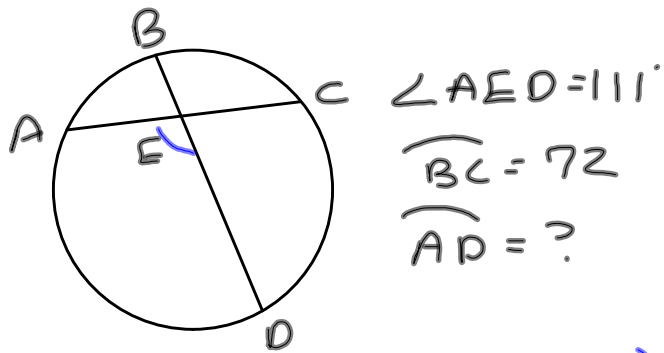
$$\angle X = \frac{1}{2}(\widehat{CD} - \widehat{MP})$$

$$2 \cdot 37 = \frac{1}{2}(84 - \widehat{MP})$$

$$\begin{array}{r} 74 = 84 - \widehat{MP} \\ -84 \quad -84 \\ \hline -10 = -\widehat{MP} \end{array}$$

$$-10 = -\widehat{MP}$$

$$10 = \widehat{MP}$$



$$\angle AED = 111^\circ$$

$$\widehat{BC} = 72$$

$$\widehat{AD} = ?$$

$$\angle AED = \frac{1}{2} (\widehat{AD} + \widehat{BC})$$

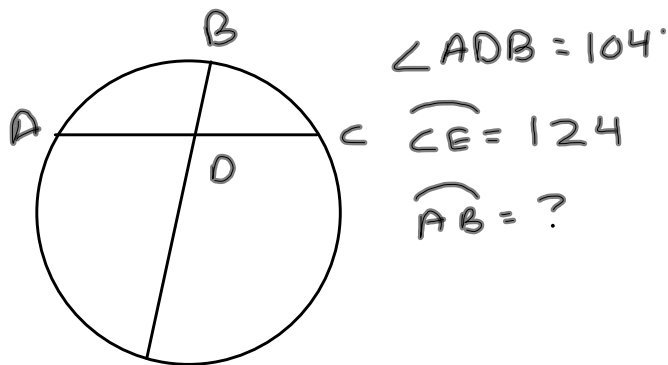
$$\downarrow$$

$$2 \cdot 111 = 2 \cdot \frac{1}{2} (\widehat{AD} + 72)$$

$$222 = \widehat{AD} + 72$$

$$\begin{array}{r} 222 = \widehat{AD} + 72 \\ - 72 \qquad \qquad - 72 \\ \hline \end{array}$$

$$150 = \widehat{AD}$$



$$\angle ADB = 104^\circ$$

$$\widehat{CE} = 124$$

$$\widehat{AB} = ?$$

$$\angle ADB = \frac{1}{2} (\widehat{AB} + \widehat{CE})$$

$$2 \cdot 104 = 2 \cdot \frac{1}{2} (\widehat{AB} + 124)$$

$$208 = \widehat{AB} + 124$$

$$\begin{array}{r} 208 = \widehat{AB} + 124 \\ - 124 \qquad \qquad - 124 \\ \hline \end{array}$$

$$84 = \widehat{AB}$$