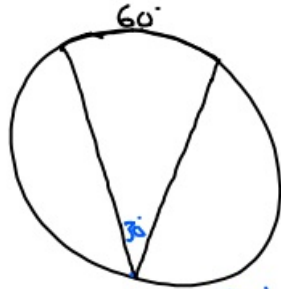
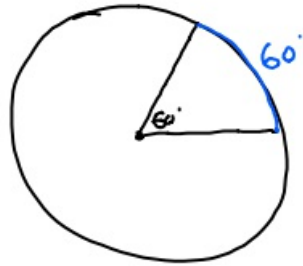
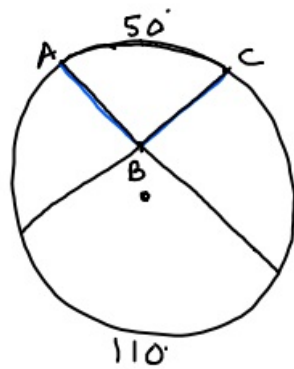
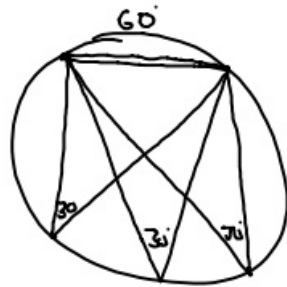


2-6-20 Geo 6th



Inscribed angle



$$\begin{aligned}\angle ABC &= \frac{50 + 110}{2} \\ &= 80^\circ\end{aligned}$$

①

$\widehat{AC} = 60^\circ$
 $\widehat{DE} = 110^\circ$
 $\angle CBE = ? 95^\circ$

$$\frac{110 + 60}{2} = \frac{170}{2} = 85^\circ$$

②

$\widehat{AC} = 60^\circ$
 $\angle ABC = 80^\circ$
 $\widehat{DE} = ?$

$$\angle ABC = \frac{\widehat{AC} + \widehat{DE}}{2}$$

$$2 \cdot 80^\circ = \frac{60 + \widehat{DE}}{2} \cdot 2$$

$$\begin{array}{r} 160 = 60 + \widehat{DE} \\ -60 \quad -60 \\ \hline 100 = \widehat{DE} \end{array}$$

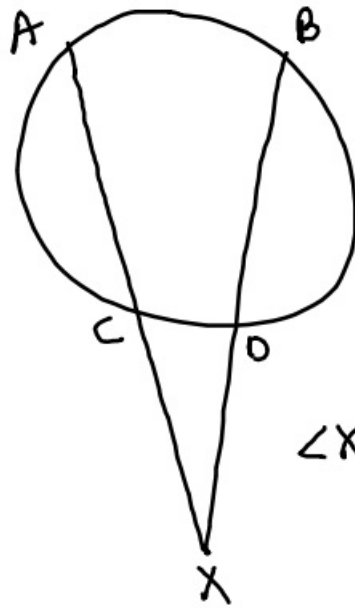
③

$\widehat{AD} = 90^\circ$
 $\angle AEB = 80^\circ$
 $\widehat{BC} = ?$

$$\angle AED = \frac{90 + \widehat{BC}}{2}$$

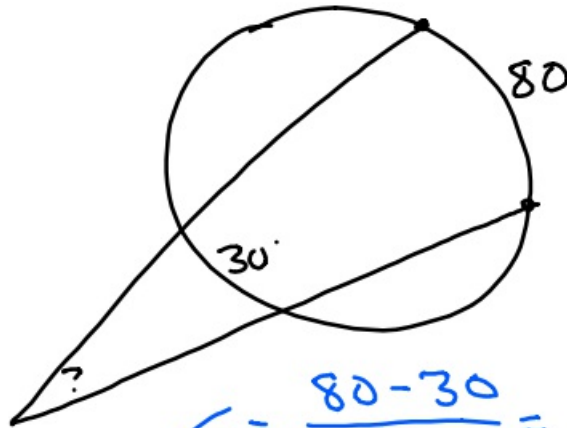
$$2 \cdot 100 = \frac{90 + \widehat{BC}}{2} \cdot 2$$

$$\begin{array}{r} 200 = 90 + \widehat{BC} \\ -90 \quad -90 \\ \hline 110 = \widehat{BC} \end{array}$$



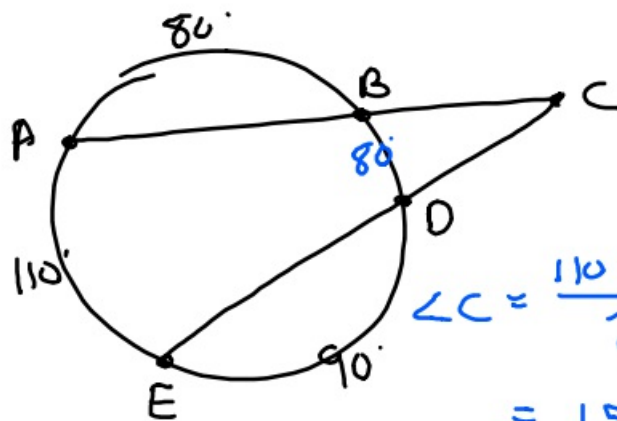
$$\angle X = \frac{\widehat{AB} - \widehat{CD}}{2}$$

④



$$\angle = \frac{80 - 30}{2} = 25^\circ$$

⑤



$$\widehat{AB} = 80^\circ$$

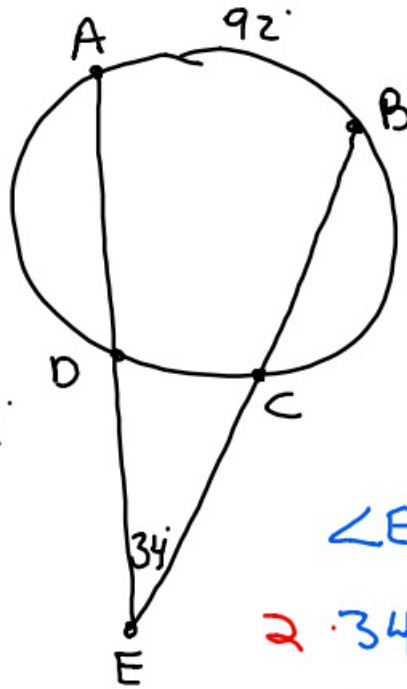
$$\widehat{AE} = 110^\circ$$

$$\widehat{DE} = 90^\circ$$

$$\angle C = ?$$

$$\angle C = \frac{110 - 80}{2} = 15^\circ$$

⑥



$$\widehat{AB} = 92^\circ$$

$$\angle E = 34^\circ$$

$$\widehat{CD} = ?$$

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

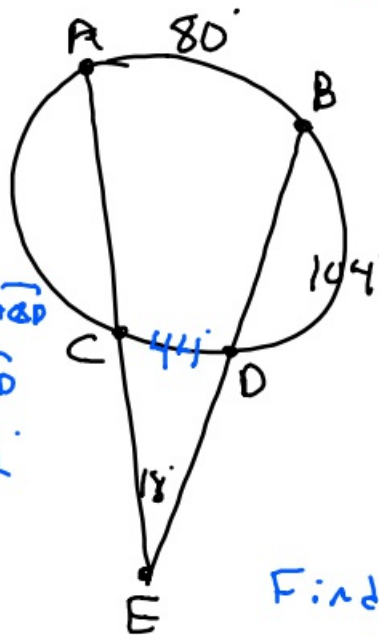
$$2 \cdot 34 = \frac{92 - \widehat{CD}}{2} \cdot 2$$

$$\frac{68 = 92 - \widehat{CD}}{-92 \quad -92}$$

$$-24 = -\widehat{CD}$$

$$\widehat{CD} = 24$$

⑦



$$360^\circ = 80 + 104 + 44 + \widehat{CD}$$

$$360 = 224 + \widehat{CD}$$

$$\widehat{CD} = 132$$

$$\widehat{AB} = 80^\circ$$

$$\widehat{BD} = 104^\circ$$

$$\angle E = 18^\circ$$

$$\widehat{AC} = ?$$

Find \widehat{CD} first.

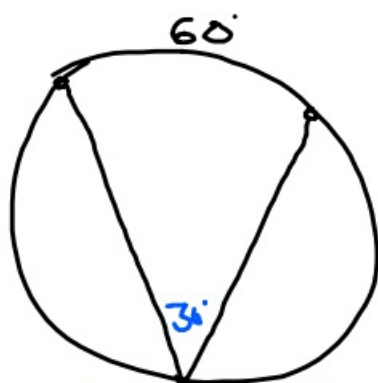
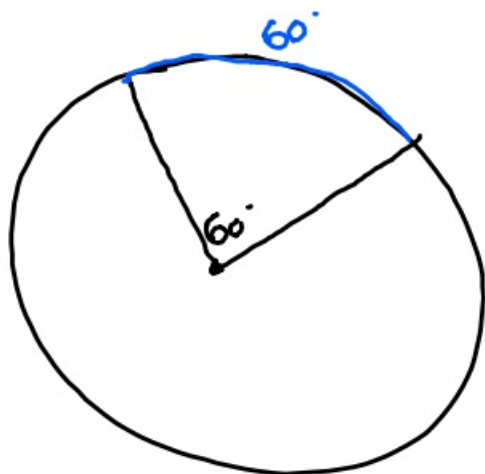
$$\angle E = \frac{\widehat{AB} - \widehat{CD}}{2}$$

$$2 \cdot 18 = \frac{80 - \widehat{CD}}{2} \cdot 2$$

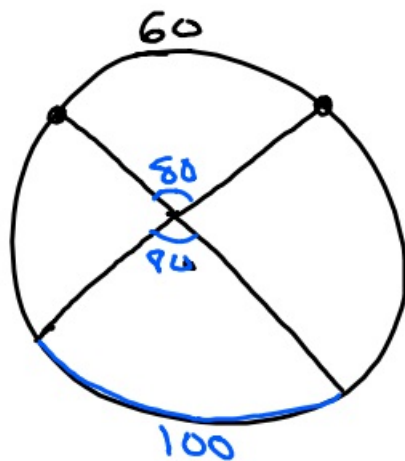
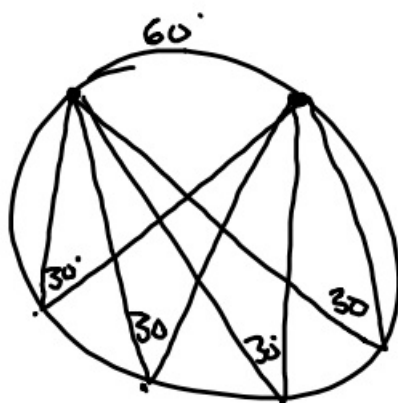
$$36 = 80 - \widehat{CD}$$

$$\widehat{CD} = 44$$

2-6-20 7th Geo

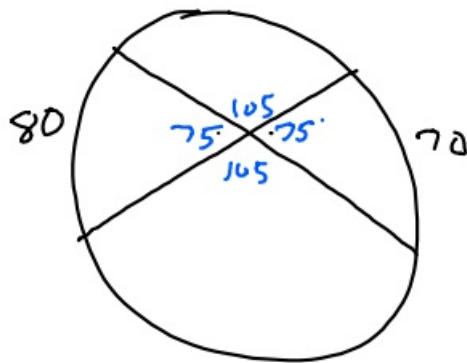


Inscribed angle

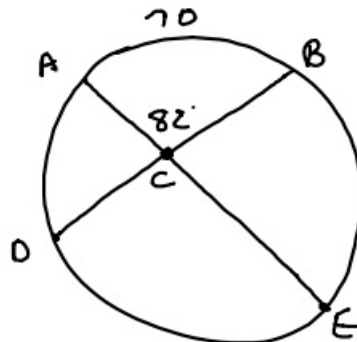


$$\frac{60 + 100}{2} = 80$$

①



②



$$\widehat{AB} = 70^\circ$$

$$\angle ACB = 82^\circ$$

$$\widehat{DE} = ?$$

$$\angle ACB = \frac{\widehat{AB} + \widehat{DE}}{2}$$

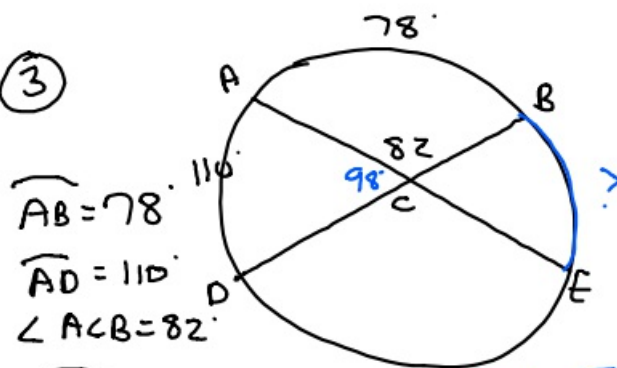
$$2 \cdot 82 = \frac{70 + \widehat{DE}}{2} \cdot 2$$

$$164 = 70 + \widehat{DE}$$

$$\underline{\quad -70 \quad -70}$$

$$94 = \widehat{DE}$$

③



$$\widehat{AB} = 78^\circ$$

$$\widehat{AD} = 110^\circ$$

$$\angle ACB = 82^\circ$$

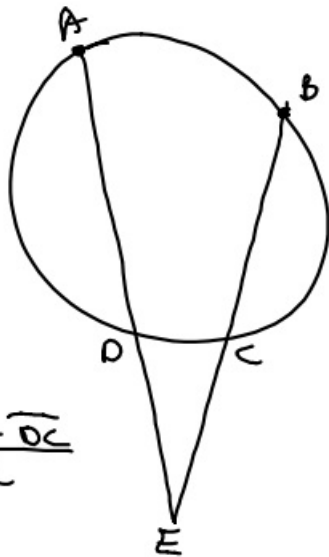
$$\widehat{BE} = ?$$

$$\angle ACD = \frac{\widehat{AD} + \widehat{BE}}{2}$$

$$2 \cdot 98 = \frac{110 + \widehat{BE}}{2} \cdot 2$$

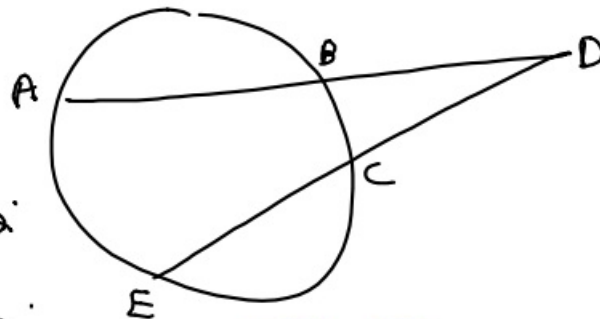
$$196 = 110 + \widehat{BE}$$

$$86 = \widehat{BE}$$



$$\angle E = \frac{\widehat{AB} - \widehat{DC}}{2}$$

(4)



$$\widehat{AE} = 82^\circ$$

$$\widehat{BC} = 40^\circ$$

$$\angle D =$$

$$\angle D = \frac{\widehat{AE} - \widehat{BC}}{2}$$

$$\angle D = \frac{82 - 40}{2}$$

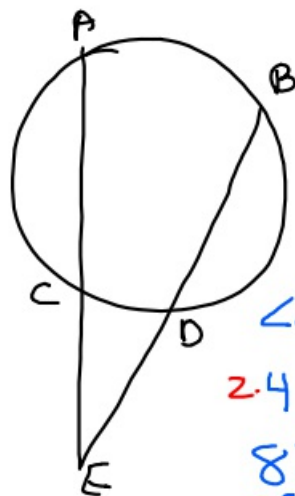
$$\angle D = 21^\circ$$

(5)

$$\angle E = 41^\circ$$

$$\widehat{AB} = 90^\circ$$

$$\widehat{DC} = ?$$



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

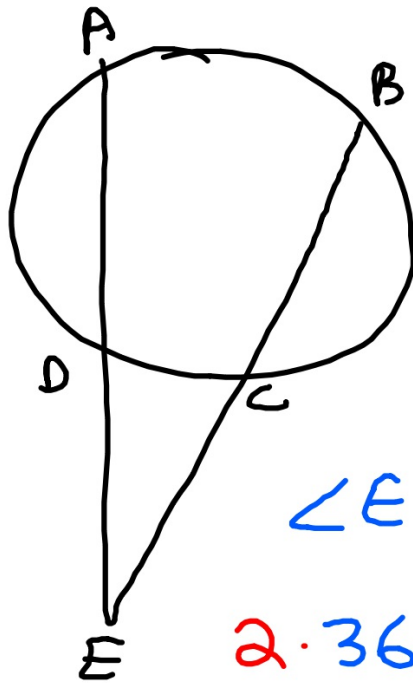
$$2 \cdot 41 = \frac{90 - \widehat{CD}}{2} \cdot 2$$

$$82 = 90 - \widehat{CD}$$

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

$$\widehat{CD} = 8$$

6



$$\angle E = 36^\circ$$

$$\widehat{CD} = 41$$

$$\widehat{AB} = ?$$

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

$$2 \cdot 36 = \frac{\widehat{AB} - 41}{2} \cdot 2$$

$$72 = \widehat{AB} - 41$$

$$\begin{array}{r} 41 \\ \hline 113 = \widehat{AB} \end{array}$$

$$113 = \widehat{AB}$$