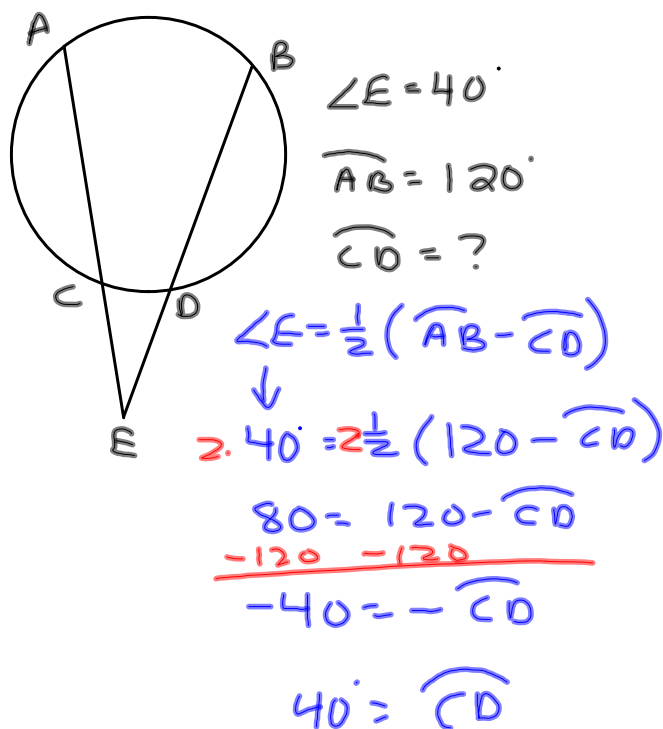
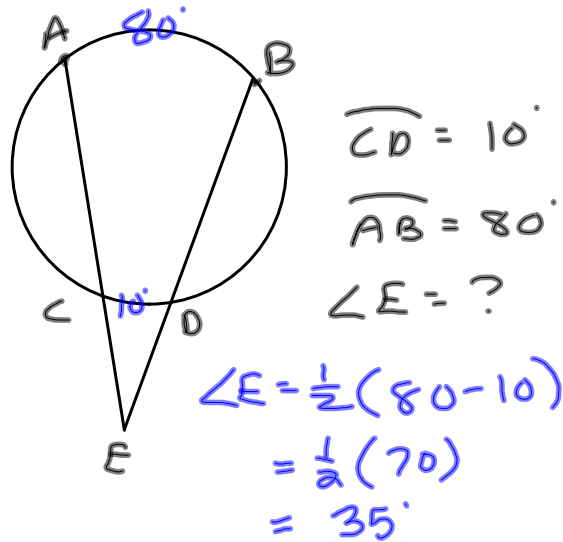
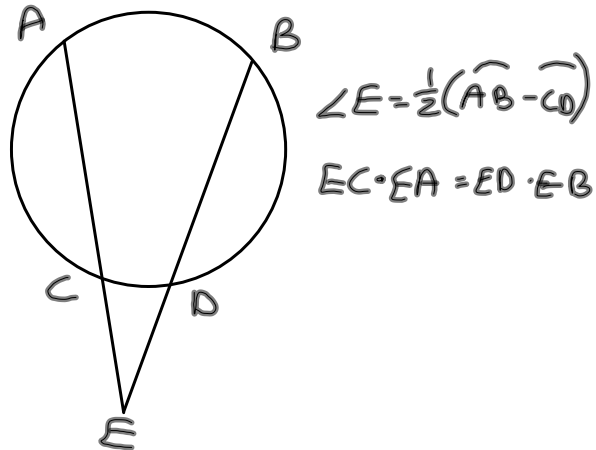
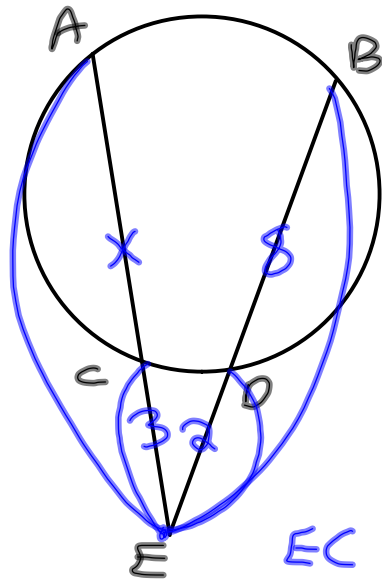


4-7-14
1st Geo





$$EC = 3$$

$$ED = 2$$

$$DB = 8$$

$$AC = ?$$

$$EC \cdot EA = ED \cdot EB$$

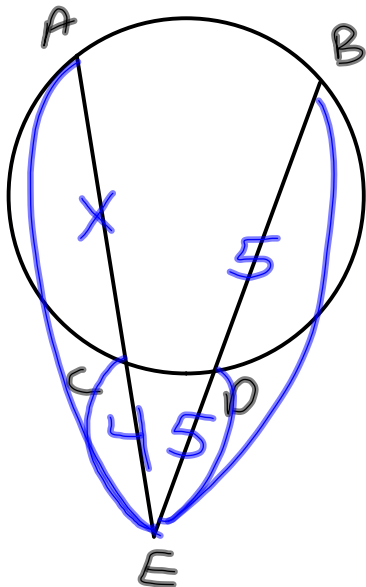
$$3 \cdot (3 + x) = 2 \cdot 10$$

$$9 + 3x = 20$$

$$\begin{array}{r} -9 \qquad \qquad -9 \\ \hline \end{array}$$

$$\frac{3x = 11}{3} \qquad \frac{11}{3}$$

$$x = 3\frac{2}{3} \quad (3.\bar{6})$$



$$CE = 4$$

$$AC = ?$$

$$ED = 5$$

$$DB = 5$$

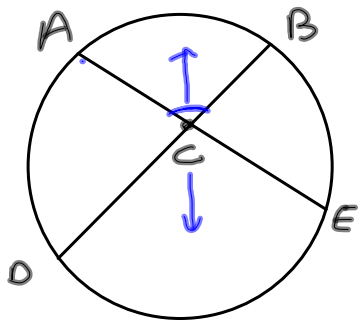
$$4 \cdot (4 + x) = 5 \cdot 10$$

$$16 + 4x = 50$$

$$\begin{array}{r} -16 \qquad \qquad -16 \\ \hline \end{array}$$

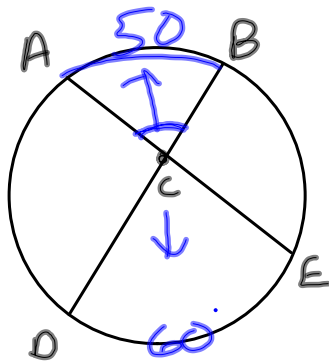
$$4x = 34$$

$$x = 8\frac{1}{2}$$



$$\angle ACB = \frac{1}{2} (\widehat{AB} + \widehat{DE})$$

$$AC \cdot CE = DC \cdot CB$$



$$\widehat{AB} = 50^\circ$$

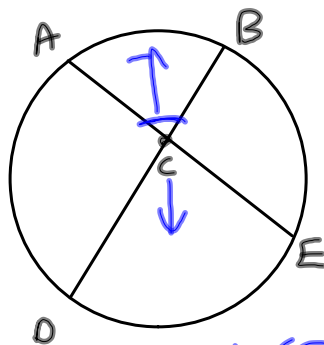
$$\widehat{DE} = 60^\circ$$

$$\angle ACB = ?$$

$$\angle ACB = \frac{1}{2} (50^\circ + 60^\circ)$$

$$= \frac{1}{2} (110)$$

$$= 55^\circ$$



$$\angle ACB = 60^\circ$$

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

$$\widehat{DE} = ?$$

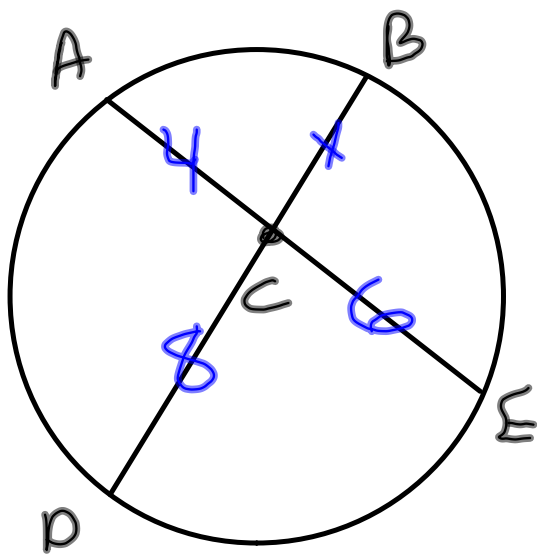
$$\angle ACB = \frac{1}{2} (\widehat{AB} + \widehat{DE})$$

$$2 \cdot 60^\circ = \frac{1}{2} (40 + \widehat{DE})$$

$$120 = 40 + \widehat{DE}$$

$$\underline{-40 \quad -40}$$

$$80 = \widehat{DE}$$



$$\begin{aligned} AC &= 4 \\ CE &= 6 \\ DC &= 8 \\ CB &= ? \end{aligned}$$

$$\begin{aligned} 8 \cdot x &= 4 \cdot 6 \\ 8x &= 24 \\ x &= 3 \end{aligned}$$