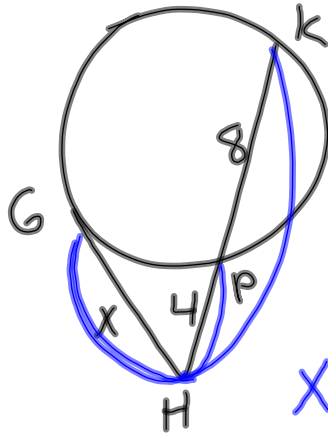


3-19-14
5th Geo

(2)

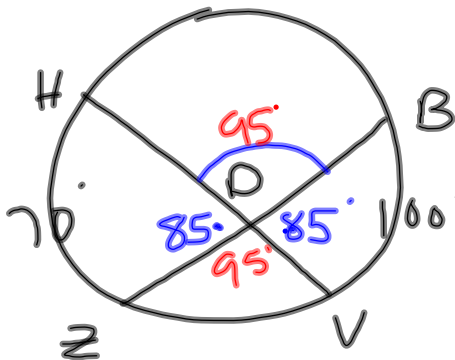


$$x^2 = 4 \cdot 12$$

$$x^2 = 48$$

$$x = \sqrt{48}$$

(10)

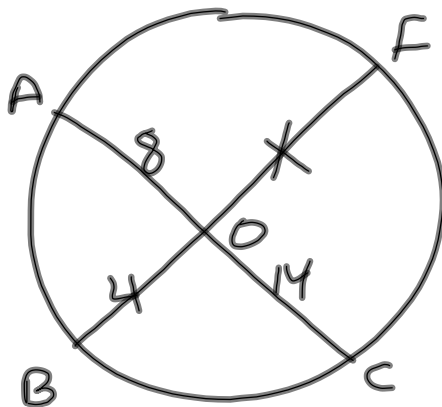


$$\angle HDZ = \frac{1}{2}(70 + 100)$$

$$= \frac{1}{2}(170)$$

$$= 85^\circ$$

(7)



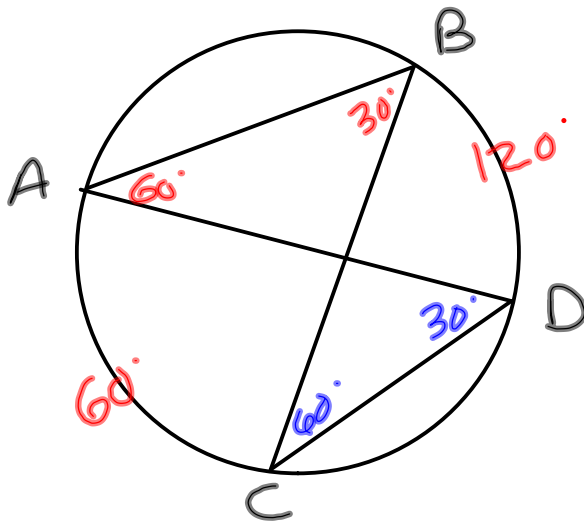
$$AO = 8$$

$$CO = 4$$

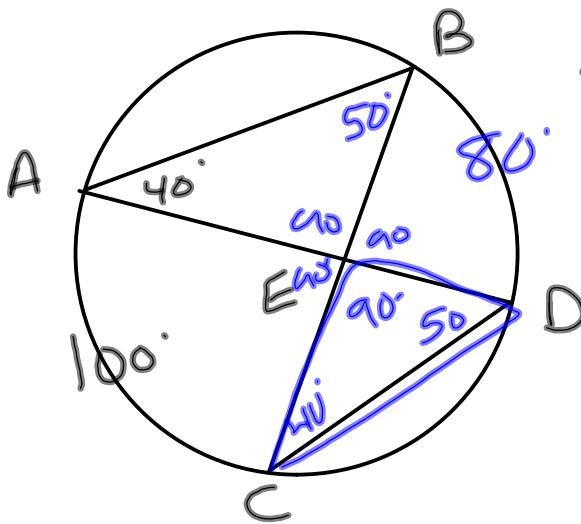
$$BO = 4$$

$$4x = 8 \cdot 14$$

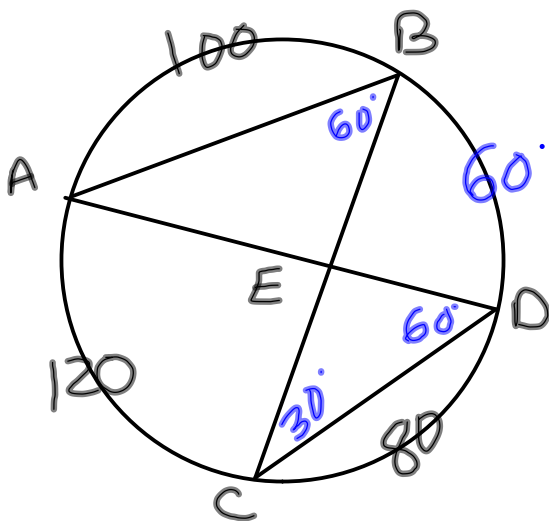
$$x = 28$$



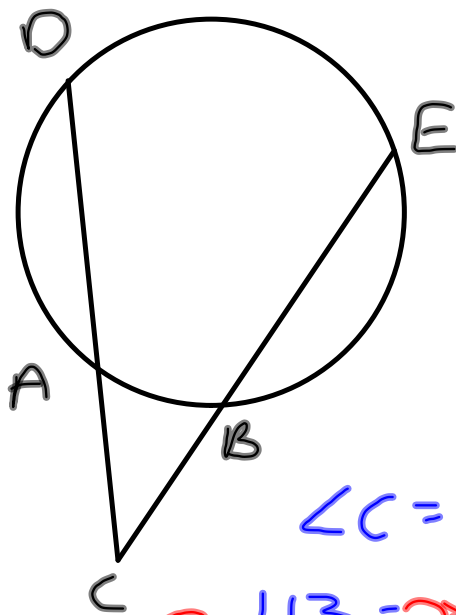
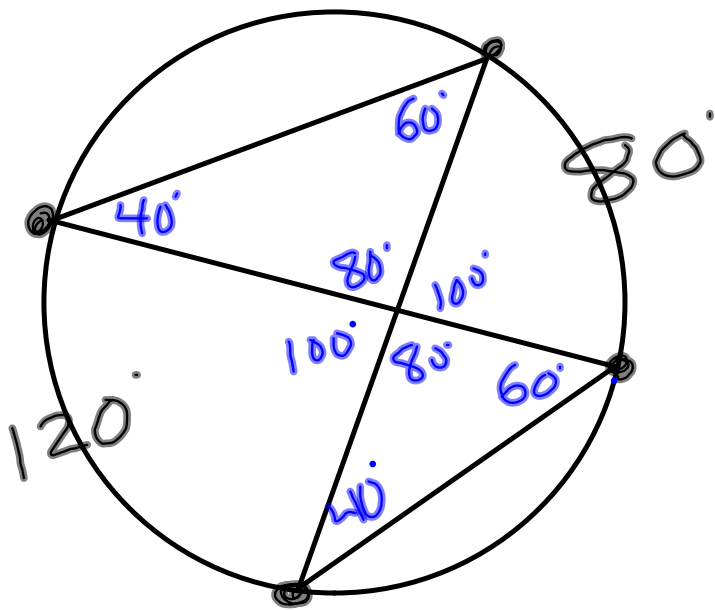
$\angle BCD = 60^\circ$
 $\angle CDA = 30^\circ$
 $\angle BAD = ?$



$\angle BAD = 40^\circ$
 $\widehat{AC} = 100^\circ$
 $\angle CED = ?$



$\widehat{AB} = 100^\circ$
 $\widehat{AC} = 120^\circ$
 $\widehat{CD} = 80^\circ$
 $\angle BCD = ?$



$$\angle C = 43^\circ$$

$$\widehat{AB} = 28$$

$$\widehat{DE} = ?$$

$$\angle C = \frac{1}{2}(\widehat{DE} - \widehat{AB})$$

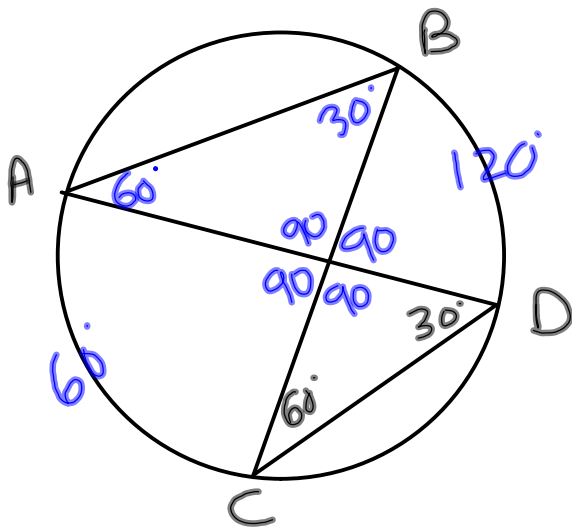
$$2 \cdot 43 = \cancel{2} \cdot \frac{1}{2}(\widehat{DE} - 28)$$

$$86 = \widehat{DE} - 28$$

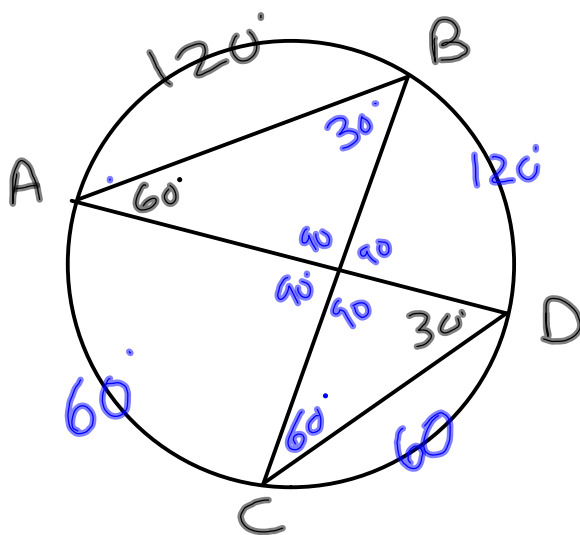
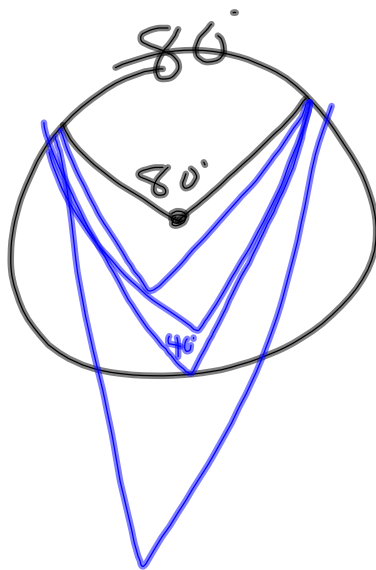
$$+ 28$$

$$+ 28$$

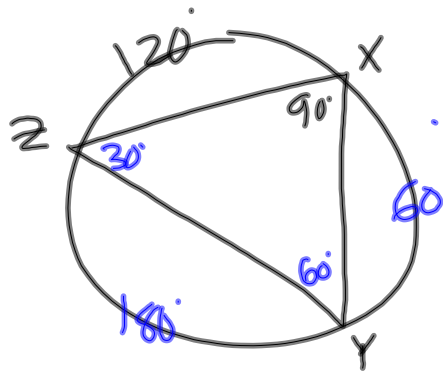
$$114 = \widehat{DE}$$



$\angle BCD = 60^\circ$
 $\angle CDA = 30^\circ$
 $\angle BAD = ?$

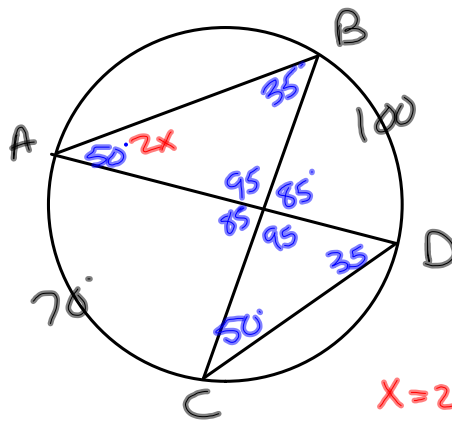


$\angle CDA = 30^\circ$
 $\angle DAB = 60^\circ$
 $\widehat{AB} = 120^\circ$
 $\widehat{CD} = ?$



$$\widehat{XZ} = 120^\circ \quad \angle YXZ = 90^\circ$$

$$\angle XZY = ? \quad 30^\circ$$



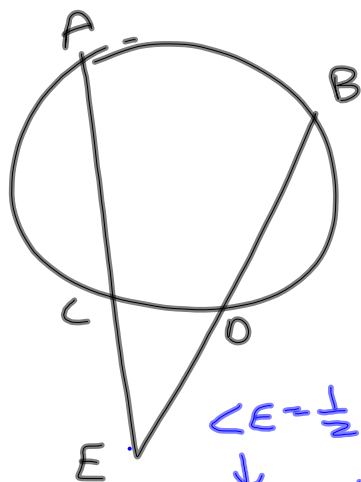
$$\widehat{BD} = 100^\circ$$

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

$$\angle BAD = 2x$$

$$\angle ADC = ? \quad 35^\circ$$

$$x = 25$$



$$\angle E = 48^\circ$$

$$\widehat{CD} = 39^\circ$$

$$\widehat{AB} = ?$$

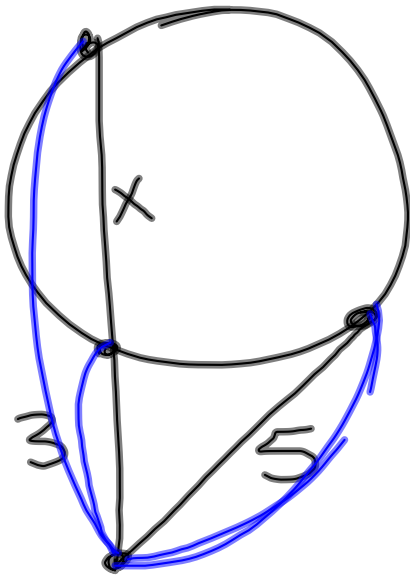
$$\angle E = \frac{1}{2} (\widehat{AB} - \widehat{CD})$$

$$\downarrow$$

$$2 \cdot 48 = \frac{1}{2} (\widehat{AB} - 39)$$

$$96 = \widehat{AB} - 39$$

$$\begin{array}{r} +39 \qquad \qquad +39 \\ \hline 135 = \widehat{AB} \end{array}$$



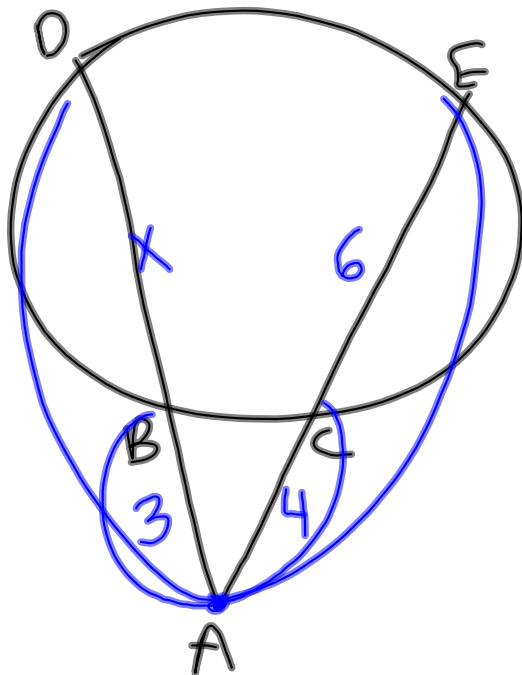
$$3 \cdot (3+x) = 5 \cdot 5$$

$$9 + 3x = 25$$

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

$$3x = 16$$

$$x = 5\frac{1}{3}$$



$$3 \cdot (3+x) = 4 \cdot 10$$

$$9 + 3x = 40$$

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

$$3x = 31$$

$$x = 10\frac{1}{3}$$