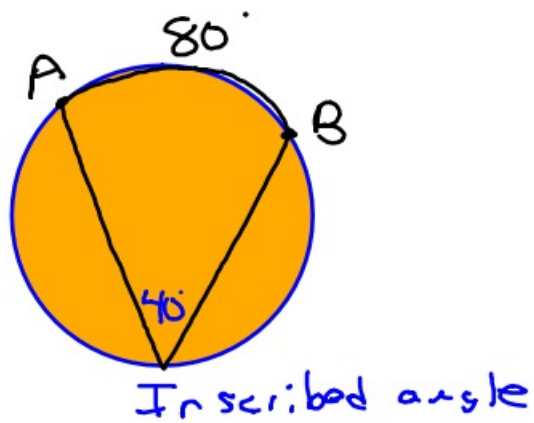
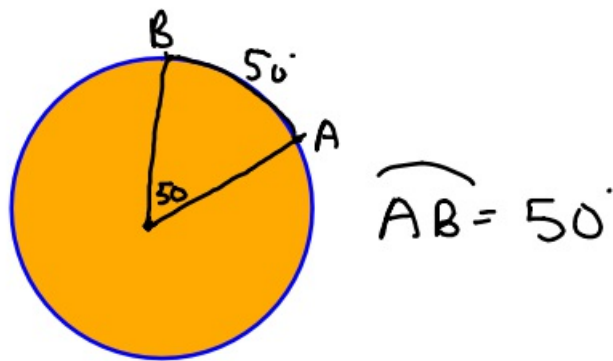
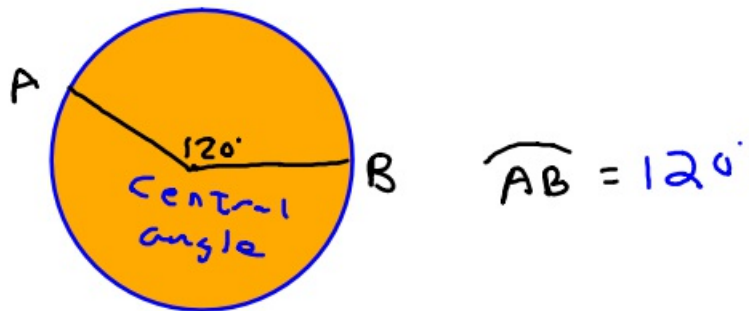
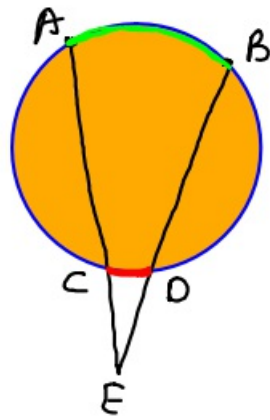
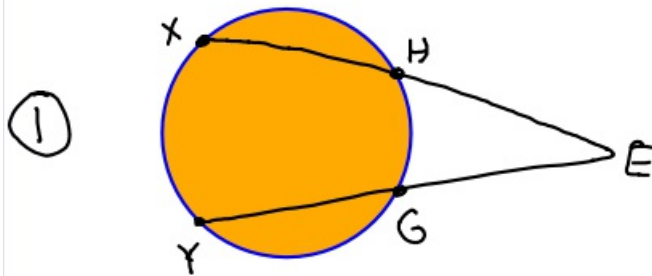


1-31-18 5<sup>th</sup> Geo



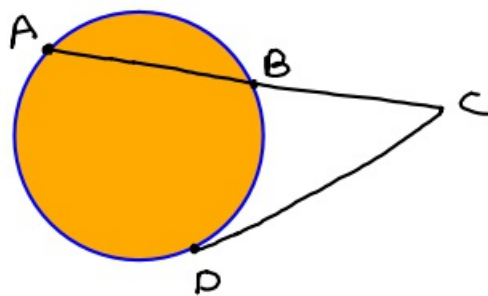


$$\angle E = \frac{1}{2} (\widehat{AB} - \widehat{CD})$$



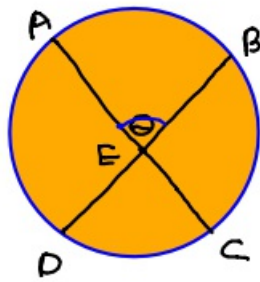
$$\widehat{XY} = 70^\circ \quad \widehat{HG} = 20^\circ \quad \angle E = ?$$

$$\begin{aligned} \angle E &= \frac{1}{2} (\widehat{XY} - \widehat{HG}) \\ &= \frac{1}{2} (70 - 20) \\ &= 25^\circ \end{aligned}$$



$$\widehat{AD} = 170^\circ \quad \widehat{BD} = 80^\circ \quad \angle C = ?$$

$$\begin{aligned} \angle C &= \frac{1}{2} (\widehat{AD} - \widehat{BD}) \\ &= \frac{1}{2} (170 - 80) \\ &= 45^\circ \end{aligned}$$

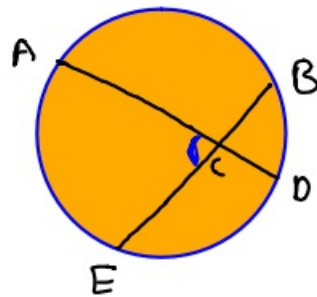


$\angle AEB$

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

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

$$\begin{aligned} \angle AEB &= \frac{1}{2}(\widehat{AB} + \widehat{DC}) \\ &= \frac{1}{2}(70 + 60) \\ &= 65^\circ \end{aligned}$$

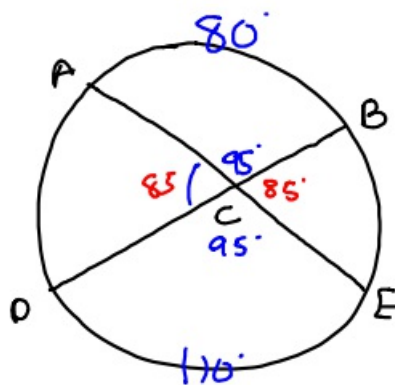


$\angle ACE = ?$

$\widehat{AE} = 120^\circ$

$\widehat{BD} = 30^\circ$

$$\begin{aligned} &\frac{1}{2}(120 + 30) \\ &= 75^\circ \end{aligned}$$



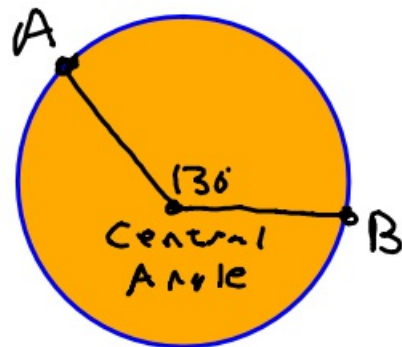
$\widehat{AB} = 80$

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

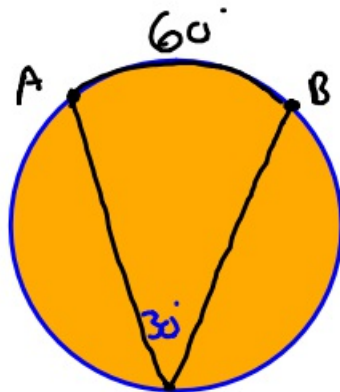
$\angle ACD = ?$   
 $85^\circ$

$$\begin{aligned} \angle DCE \\ \angle ACB &= \frac{1}{2}(110 + 80) \\ &= 95^\circ \end{aligned}$$

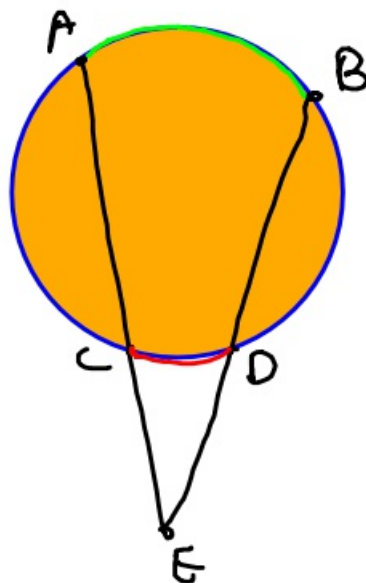
1-31-18 6<sup>th</sup> Geo



$$\widehat{AB} = 130^\circ$$

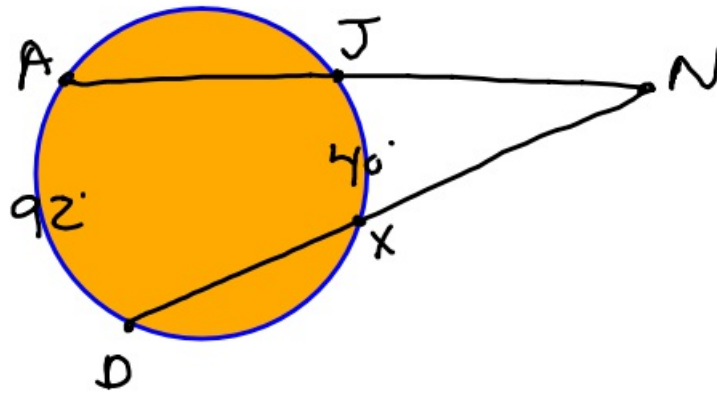


Inscribed angle



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

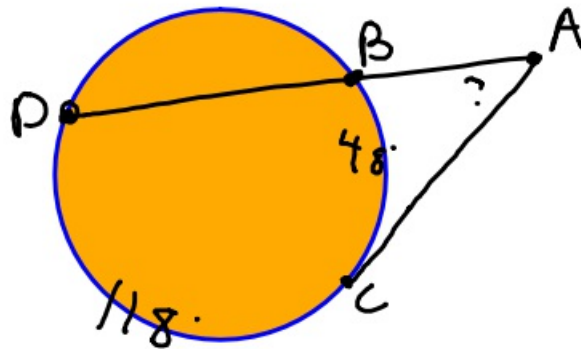
①



$$\widehat{AD} = 92^\circ \quad \widehat{JX} = 40^\circ \quad \angle N = ?$$

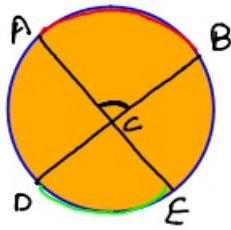
$$\angle N = \frac{1}{2}(92 - 40) = 26^\circ$$

②



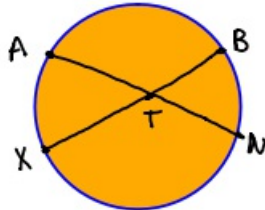
$$\widehat{DC} = 118^\circ \quad \widehat{BC} = 48^\circ \quad \angle A = ?$$

$$\angle A = \frac{1}{2}(118 - 48) = 35^\circ$$



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

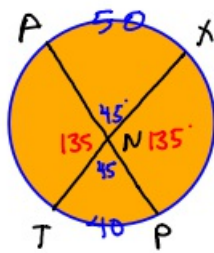
③



$$\widehat{AX} = 40 \quad \widehat{BN} = 44 \quad \angle ATX = ?$$

$$\angle ATX = \frac{1}{2} (40 + 44) = 42$$

④



$$\widehat{AX} = 50$$

$$\widehat{TP} = 40$$

$$\angle ANT = ?$$

$$\frac{1}{2} (50 + 40) = 45$$

$$135$$