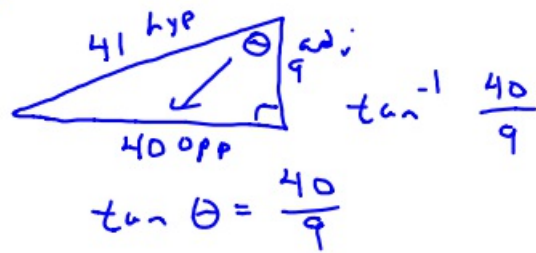


2-12-18 5<sup>th</sup> Geo

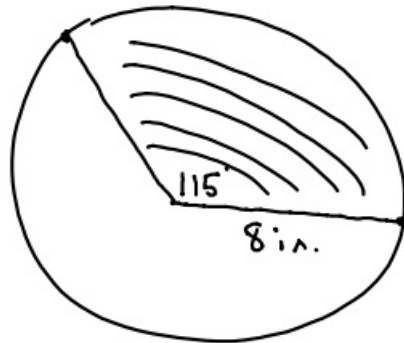
RO 22

(10)



Review of Ch. 9

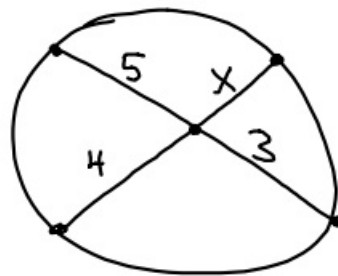
(1)



What is  
the area  
of the  
shaded region?

$$\frac{115}{360} \cdot \pi \cdot 8^2 \approx 64.2 \text{ in}^2$$

(2)

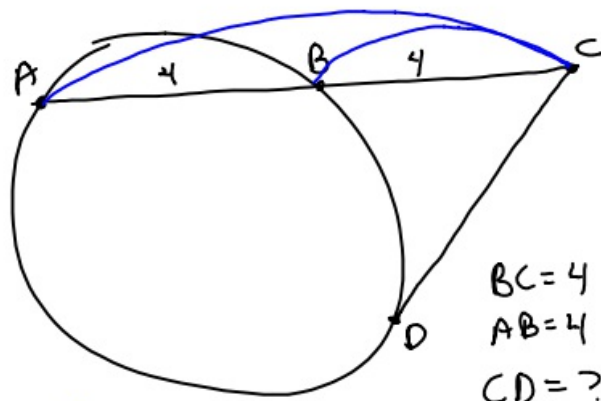


$$4x = 5 \cdot 3$$

$$4x = 15$$

$$x = 3.75$$

③



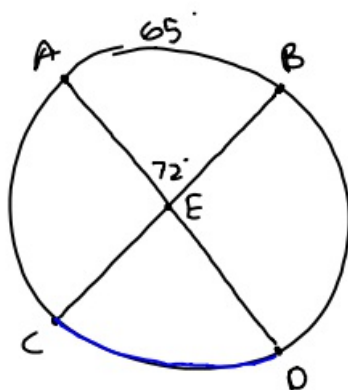
$$\begin{aligned} BC &= 4 \\ AB &= 4 \\ CD &= ? \end{aligned}$$

$$4 \cdot 8 = x \cdot x$$

$$\sqrt{32} = \sqrt{x^2}$$

$$x \approx 5.7$$

④



$$\begin{aligned} \angle AEB &= 72^\circ \\ \widehat{AB} &= 65 \\ \widehat{CD} &= ? \end{aligned}$$

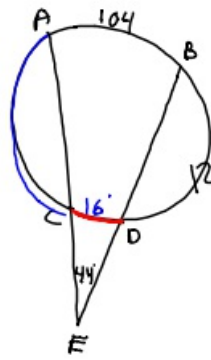
$$\angle AEB = \frac{1}{2}(\widehat{AB} + \widehat{CD})$$

$$2 \cdot 72^\circ = \cancel{2} \cdot \frac{1}{\cancel{2}} (65 + \widehat{CD})$$

$$\begin{array}{r} 144 = 65 + \widehat{CD} \\ -65 \quad -65 \\ \hline \end{array}$$

$$79 = \widehat{CD}$$

⑤



$$\widehat{AB} = 104$$

$$\widehat{BD} = 122$$

$$\angle E = 44$$

$$\widehat{AC} = ?$$

$$104 + 122 + 16 = 242$$

$$\begin{array}{r} 360 \\ - 242 \\ \hline 118 \end{array}$$

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

$$2 \cdot 44 = \frac{1}{2}(104 - \widehat{CD})$$

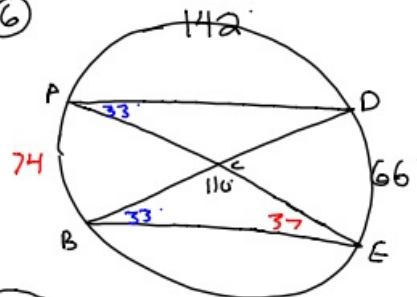
$$88 = 104 - \widehat{CD}$$

$$-104 \quad -104$$

$$\hline -16 = -\widehat{CD}$$

$$16 = \widehat{CD}$$

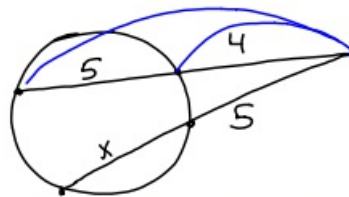
⑥



$$\widehat{AD} = 142 \quad \angle BCE = 110$$

$$\widehat{DE} = 66 \quad \widehat{AB} = ? 74$$

⑦



$$4 \cdot 9 = 5 \cdot (5 + x)$$

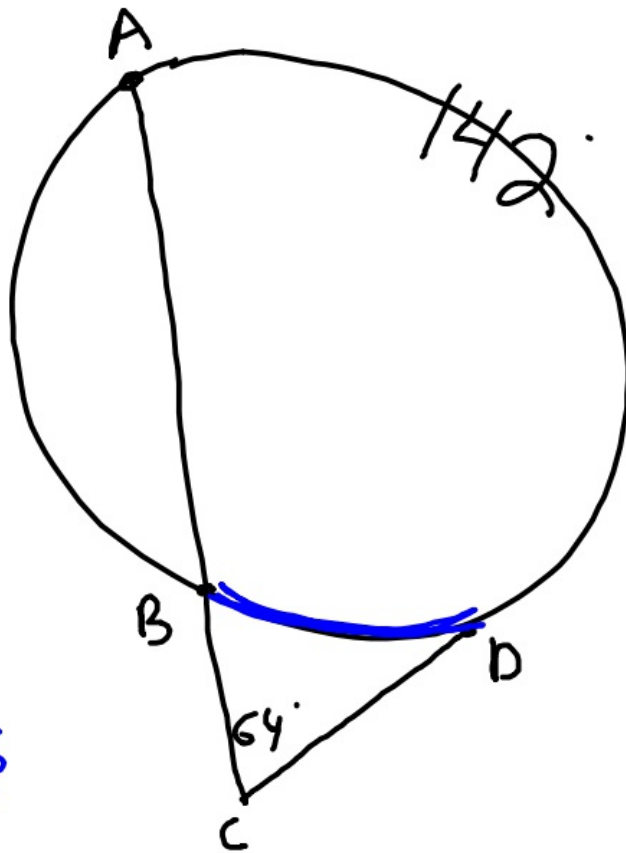
$$36 = 25 + 5x$$

$$-25 \quad -25$$

$$\hline 11 = 5x$$

$$x = 2.2$$

8



$$\widehat{AD} = 142^\circ$$

$$\angle C = 64^\circ$$

$$\widehat{BD} = ?$$

this is  
not

$$\angle C = \frac{1}{2} (\widehat{AD} - \widehat{BD})$$
$$2 \cdot 64 = \cancel{2} (142 - \widehat{BD})$$

$$128 = 142 - \widehat{BD}$$
$$142 - 142$$

---

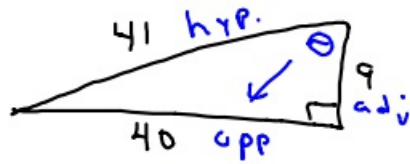
$$-14 = -\widehat{BD}$$

$$\therefore \widehat{BD} = 14^\circ$$

2-12-18 6<sup>th</sup> Geo

RQ 22

(10)

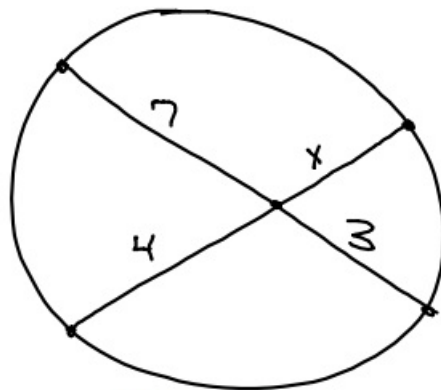


$$\cos \theta = \frac{9}{41} \quad \sin \theta = \frac{40}{41} \quad \tan \theta = \frac{40}{9}$$

$$77.3^\circ$$

Review of Ch. 9

(1)

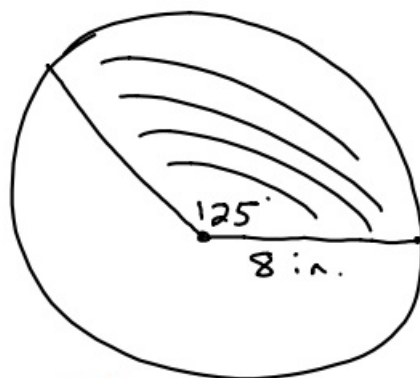


$$4 \cdot x = 7 \cdot 3$$

$$4x = 21$$

$$x = 5.25$$

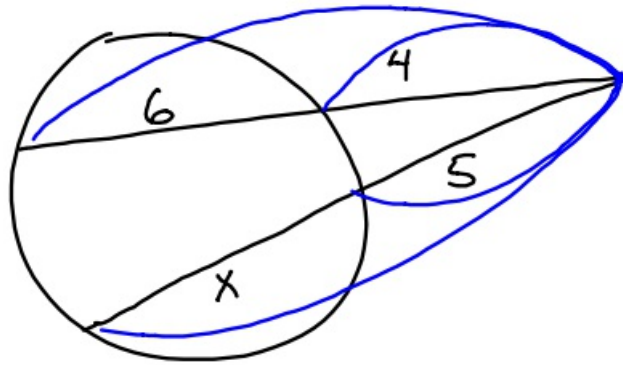
(2)



Give area  
of shaded  
region.

$$\frac{125}{360} \cdot \pi \cdot 8^2 \approx 69.8$$

(3)



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

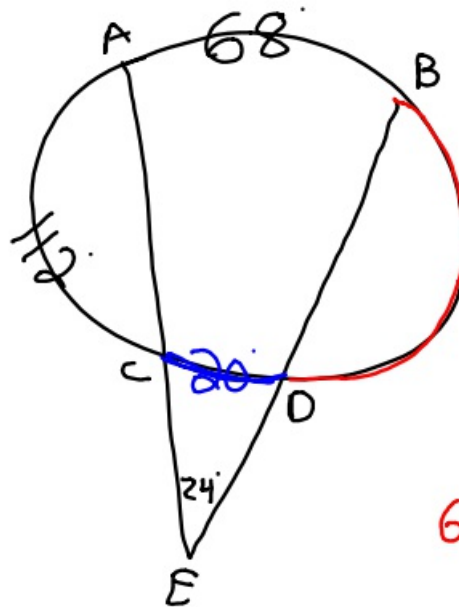
$$40 = 25 + 5x$$

$$\begin{array}{r} -25 \\ \hline \end{array}$$

$$15 = 5x$$

$$x = 3$$

(4)



$$\widehat{AB} = 68^\circ$$

$$\angle E = 24^\circ$$

$$\widehat{AC} = 112^\circ$$

$$\widehat{BD} = ? 160^\circ$$

$$68 + 112 + 20$$

$$200^\circ$$

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

$$2 \cdot 24 = \frac{1}{2}(68 - \widehat{CD})$$

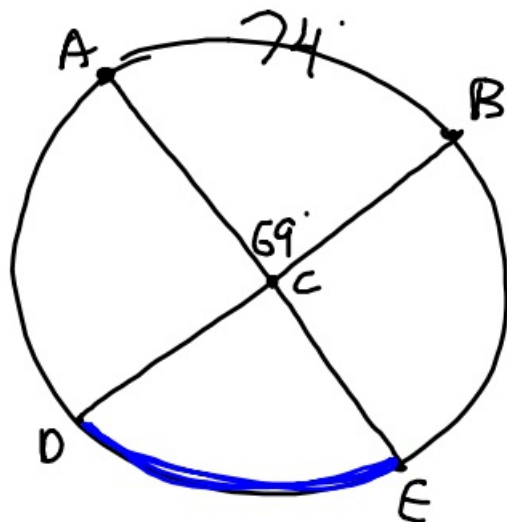
$$48 = 68 - \widehat{CD}$$

$$\begin{array}{r} -68 \\ \hline \end{array}$$

$$-20 = -\widehat{CD}$$

$$\therefore \widehat{CD} = 20$$

⑤



$$\widehat{AB} = 74$$

$$\angle ACB = 69^\circ$$

$$\widehat{DE} = ?$$

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

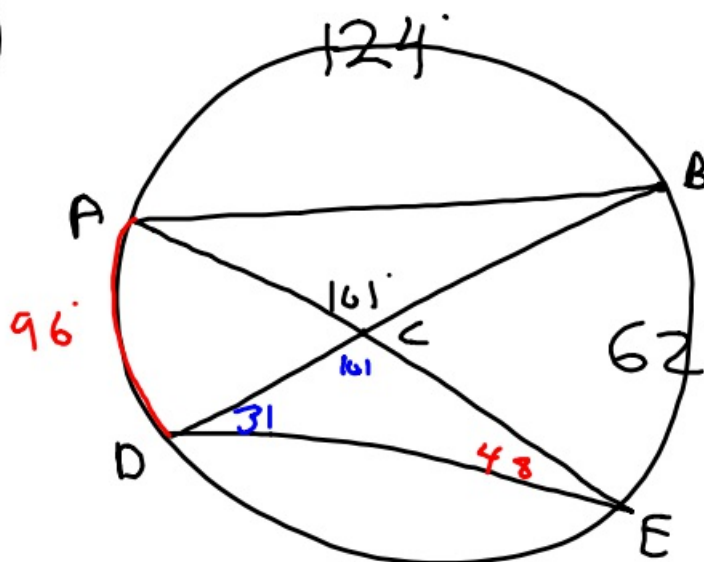
$$2 \cdot 69 = \cancel{2} \cdot \frac{1}{2} (74 + \widehat{DE})$$

$$138 = 74 + \widehat{DE}$$

$$\begin{array}{r} 138 = 74 + \widehat{DE} \\ -74 \quad -74 \\ \hline \end{array}$$

$$64 = \widehat{DE}$$

⑥



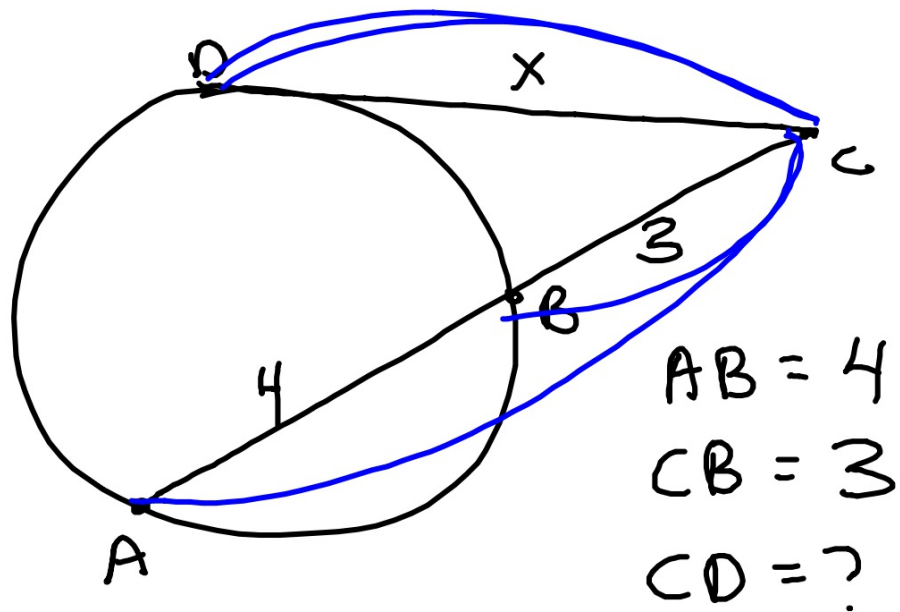
$$\widehat{AB} = 124^\circ$$

$$\angle ACB = 101^\circ$$

$$\widehat{BE} = 62^\circ$$

$$\widehat{AD} = ? \quad 96^\circ$$

⑦



AB = 4  
CB = 3  
CD = ?

$$x \cdot x = 3 \cdot 7$$

$$\sqrt{x^2} = \sqrt{21}$$

$$x \approx 4.$$



