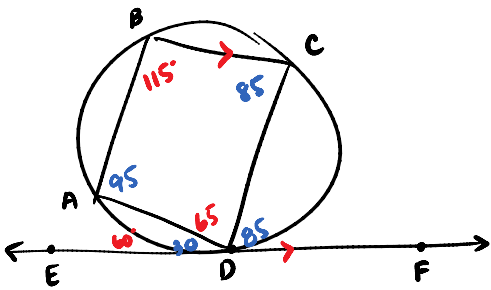


Section 10.7

p. 489: 9, 11, 16, 19, 20, 21, 23, 24

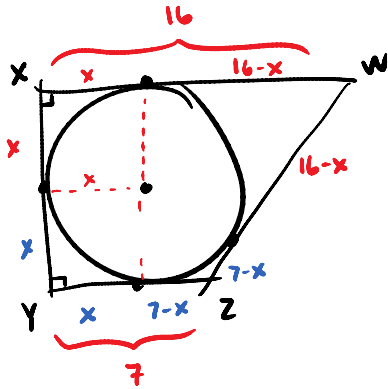
#9



Given:  $\angle B = 115^\circ$   
 $\widehat{AD} = 60^\circ$   
 $\overline{BC} \parallel \overline{EF}$

- Find
- a.  $\angle ADC$   $65^\circ$
  - b.  $\angle CDF$   $85^\circ$
  - c.  $\angle C$   $85^\circ$
  - d.  $\angle A$   $95^\circ$

#11

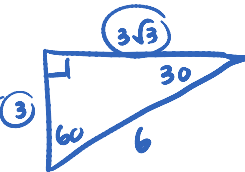
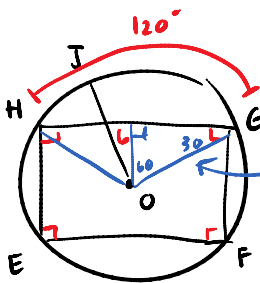


$$P = 4x + 2(7-x) + 2(16-x)$$

$$P = 4x + 14 - 2x + 32 - 2x$$

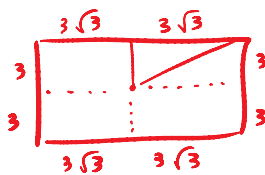
$$P = 46$$

#16



$$2x = 6$$

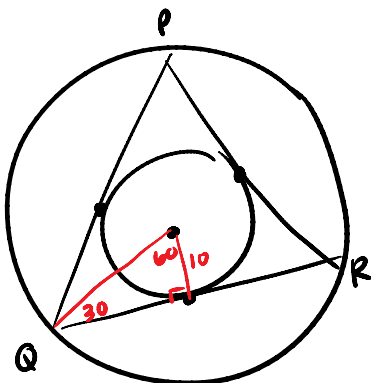
$$x = 3$$



$$P = 4(3) + 4(3\sqrt{3})$$

$$= 12 + 12\sqrt{3}$$

#19

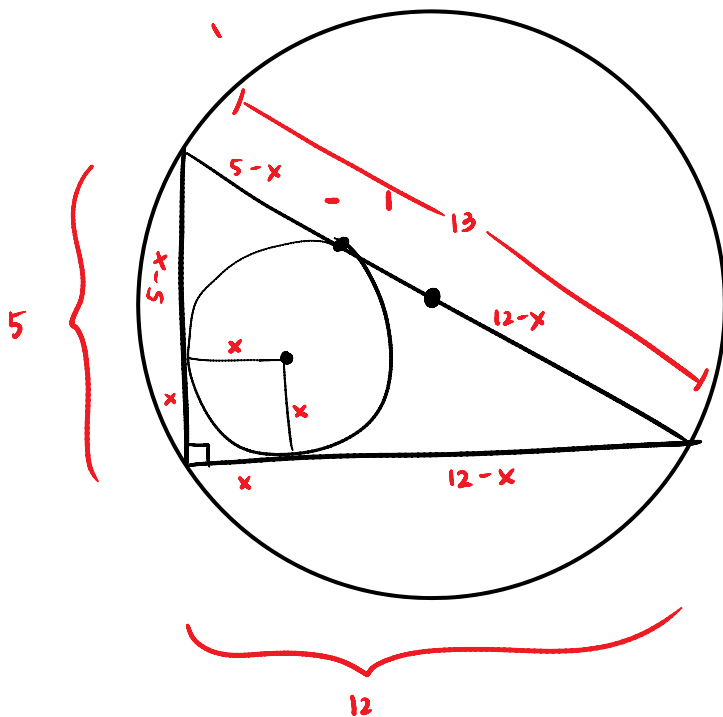


- a. Radius of Larger  $\odot$ ?  $20$
- b.  $\frac{1}{2}$



#24

A right triangle has legs measuring 5 and 12. Find the ratio of the area of the inscribed circle to the area of the circumscribed circle.



$$5-x+12-x=13$$

$$17-2x=13$$

$$-2x=-4$$

$$x=2$$

$$A_{\text{Small}} = \pi(2)^2 = 4\pi$$

$$A_{\text{Big}} = \pi\left(\frac{13}{2}\right)^2 = \frac{169\pi}{4}$$

$$\text{Ratio: } \frac{4\pi}{169\pi/4} = \frac{4}{169} \cdot 4 = \boxed{\frac{16}{169}}$$