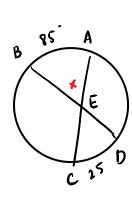
p. 476: 13, 15, 24, 25, 27, 33

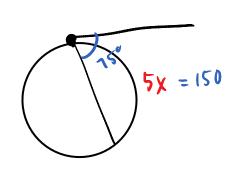
#13



$$x = \frac{95 + 29}{2}$$

$$= 55$$

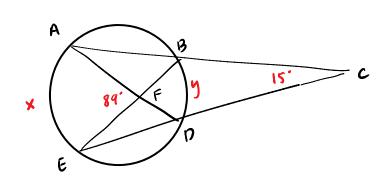
#15 A circle is divided into 3 arcs in a ratio of 3:4:5. A tangent-chord angle intercepts the largest of 3 arcs. Find the measure of the tangent-chord angle



$$3x+4x+5x=360$$

 $12x=360$
 $x=30$

#24



$$\frac{\chi + y}{2} = 89$$

$$\frac{x-y}{2} = 15$$

$$x-y=30$$

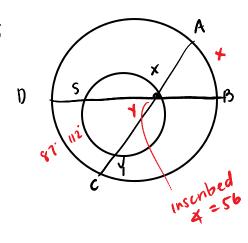
$$x + y = 178$$

 $x - y = 30$

$$\lambda x = 208$$

$$x = 104$$

#25



$$\frac{2+87}{2} = 56$$

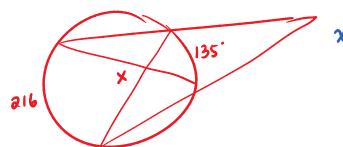
$$x + 87 = 112$$

$$x = 25$$

#27 A secant-secant angle intercepts arcs that are $\frac{3}{5}$ and $\frac{3}{8}$ of the circle. If a Chord-chord angle and its vertical angle intercept the same arcs, what is the measure of the chord-chord angle?

$$\frac{3}{5}(360) = 216$$

$$\frac{3}{8}(360) = 135$$



$$x = 135 + 216$$

$$= 175.5$$

#33

