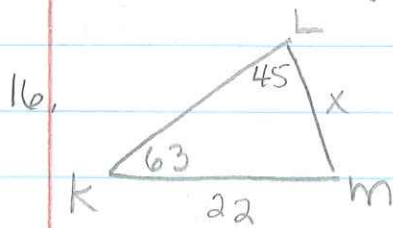
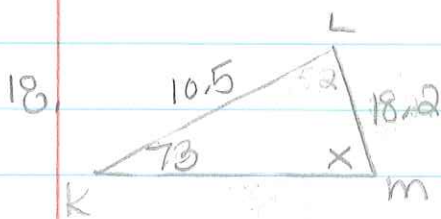


A# 7.6 Pg 381 # 16-30 even



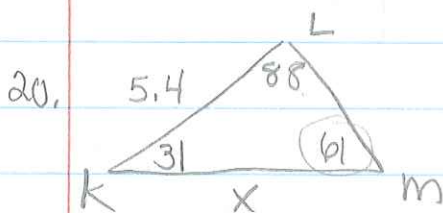
$$\frac{\sin 45}{22} = \frac{\sin 63}{x}$$

$$x = \frac{22 \sin 63}{\sin 45} = 27.7$$



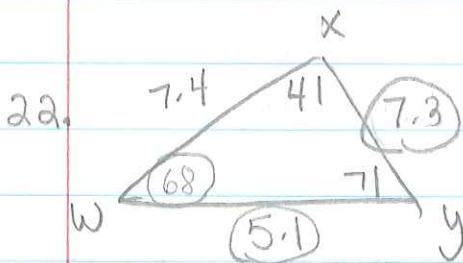
$$\frac{\sin 73}{18.2} = \frac{\sin x}{10.5}$$

$$\sin x = \sin^{-1} \left( \frac{10.5 \sin 73}{18.2} \right) = 33.5$$



$$\frac{\sin 61}{5.4} = \frac{\sin 88}{x}$$

$$x = \frac{5.4 \sin 88}{\sin 61} = 6.2$$



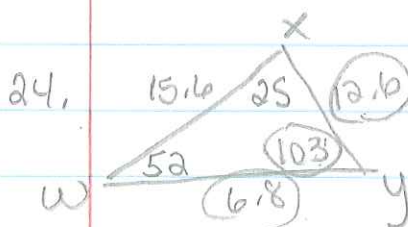
$$m \angle W = 180 - 41 - 71 = 68^\circ$$

$$\frac{\sin 71}{7.4} = \frac{\sin 41}{x}$$

$$x = \frac{7.4 \sin 41}{\sin 71} = 5.1$$

$$\frac{\sin 68}{w} = \frac{\sin 71}{7.4}$$

$$w = \frac{7.4 \sin 68}{\sin 71} = 7.3$$

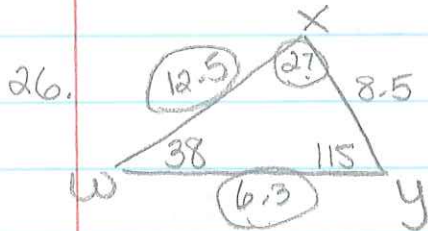


$$m \angle Y = 180 - 52 - 25 = 103$$

$$\frac{\sin 103}{15.6} = \frac{\sin 25}{x} = \frac{\sin 52}{w}$$

$$x = \frac{15.6 \sin 25}{\sin 103} = 6.8$$

$$w = \frac{15.6 \sin 52}{\sin 103} = 12.6$$

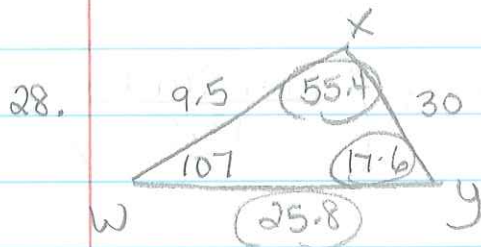


$$m\angle X = 180 - 38 - 115 = 27$$

$$\frac{\sin 38}{8.5} = \frac{\sin 115}{y} = \frac{\sin 27}{x}$$

$$x = \frac{8.5 \sin 27}{\sin 38} = 6.3$$

$$y = \frac{8.5 \sin 115}{\sin 38} = 12.5$$



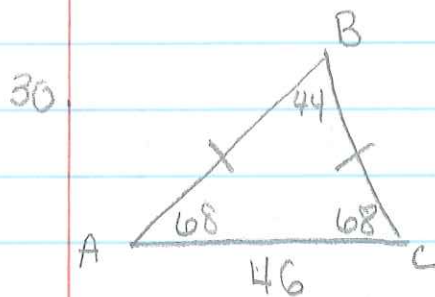
$$\frac{\sin 107}{30} = \frac{\sin Y}{9.5}$$

$$y = \sin^{-1}\left(\frac{9.5 \sin 107}{30}\right) = 17.6$$

$$m\angle X = 180 - 107 - 17.6 = 55.4$$

$$\frac{\sin 107}{30} = \frac{\sin 55.4}{x}$$

$$x = \frac{30 \sin 55.4}{\sin 107} = 25.8$$



$$m\angle A = \frac{180 - 44}{2} = 68$$

$$\frac{\sin 68}{c} = \frac{\sin 44}{46}$$

$$c = \frac{46 \sin 68}{\sin 44} = 61.4 = a$$

4.1

$$\text{Perimeter} = 61.4 + 61.4 + 46 = 168.8 \text{ cm}$$