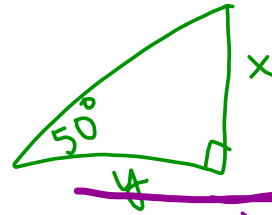
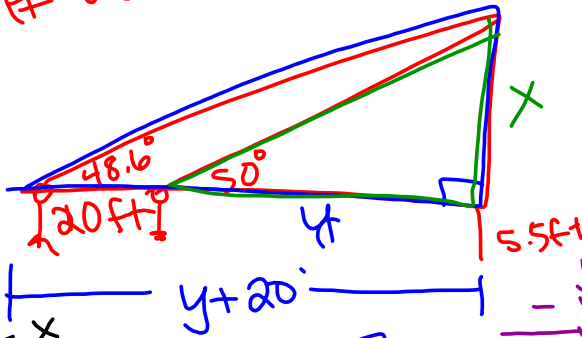


HW5 problem #8 worked out

#8 on HW5



$$\tan 50 = \frac{x}{y}$$

$$x = y \tan 50$$

$$x = \cancel{6.5} \tan 50$$

$$\tan 48.6 = \frac{x}{y+20}$$

$$x = (y+20) \tan 48.6$$

$$(y+20) \tan 48.6 = y \tan 50$$

$$y \tan 48.6 + 20 \tan 48.6 = y \tan 50$$

$$- y \tan 48.6$$

$$20 \tan 48.6 = y \tan 50 - y \tan 48.6$$

$$20 \tan 48.6 = y (\tan 50 - \tan 48.6)$$

$$\frac{20 \tan 48.6}{\tan 50 - \tan 48.6} = y$$