

SOH CAH TOA

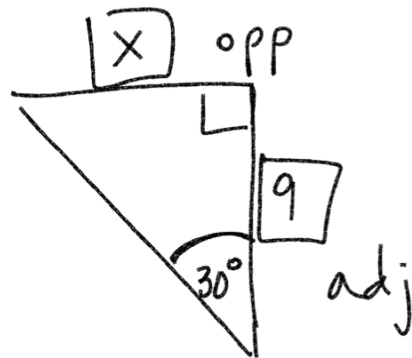
$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\cos^{-1}(\cos \theta) = \cos^{-1}\left(\frac{15}{36}\right)$$

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$$= \boxed{65.4^\circ}$$

2.)

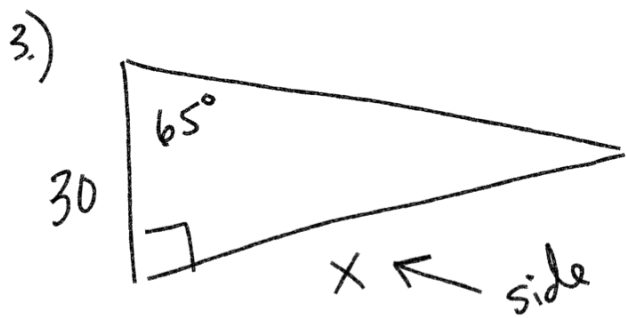


$\tan \theta = \frac{\text{opp}}{\text{adj}}$  LTPENDAS

$$9 \left( \tan 30^\circ \right) = \left( \frac{x}{9} \right) 9$$

$$x = 9 \tan 30^\circ$$

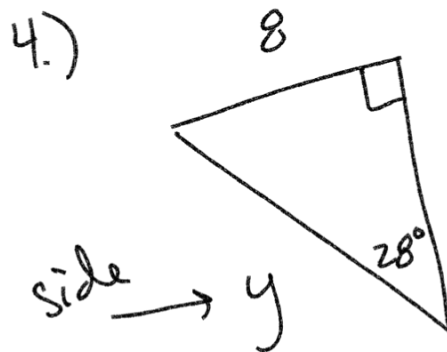
$$= \boxed{5.2}$$



$$\tan 65^\circ = \frac{x}{30}$$

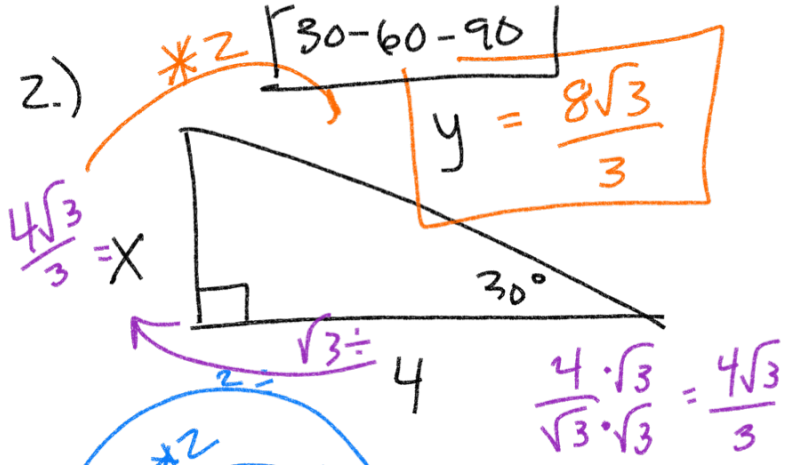
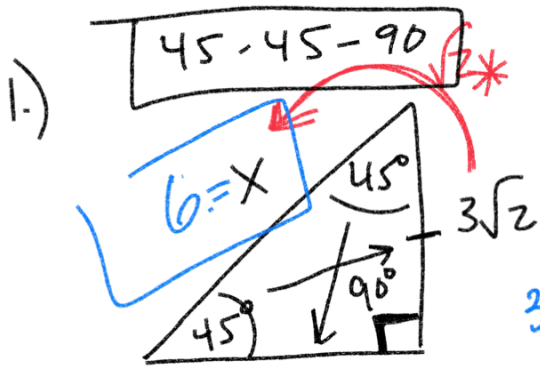
$$x = 30 (\tan 65^\circ)$$

$$= \boxed{x = 64.3}$$



$$\sin 28^\circ = \frac{8}{y}$$

$$y = \frac{8}{\sin 28^\circ} = \boxed{17}$$



$3\sqrt{2} \cdot \sqrt{2}$   
 $3\sqrt{4}$   
 $3(2)$   
 $6 = x$

