

3-21-14

1st Geo

Ch. 8 PT 2

(18)



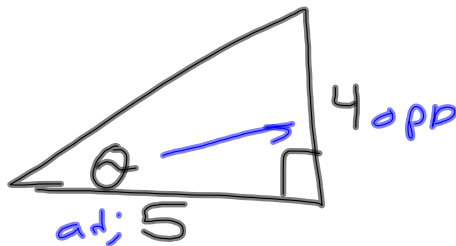
$$\frac{2\sqrt{3}}{\sqrt{3}} \quad \frac{2}{\sqrt{3}}$$

New

① Simplify $\sqrt{40}$

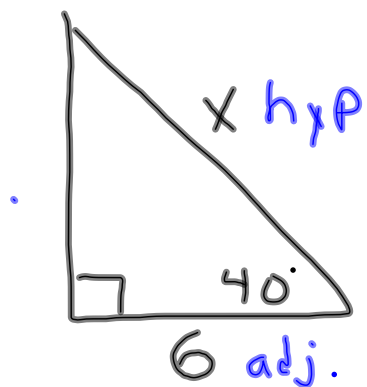
$$40 = 4 \cdot 10 = 2^2 \cdot 2 \cdot 5$$
$$\sqrt{40} = \sqrt{2 \cdot 2 \cdot 2 \cdot 5} = 2\sqrt{10}$$

(2)



$$\tan \theta = \frac{4}{5}$$

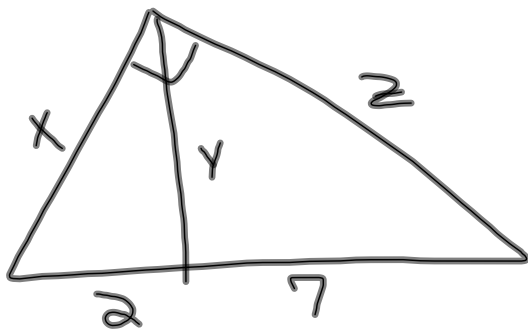
$$\theta \approx 38.7^\circ$$



$$\frac{\cos 40}{1} = \frac{6}{x}$$

$$x \cdot \frac{\cancel{\cos 40}}{\cancel{\cos 40}} = \frac{6}{\cos 40}$$

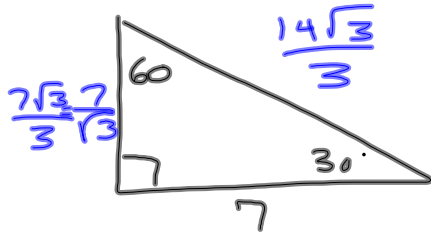
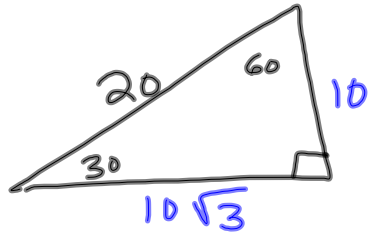
$$x \approx 7.8$$



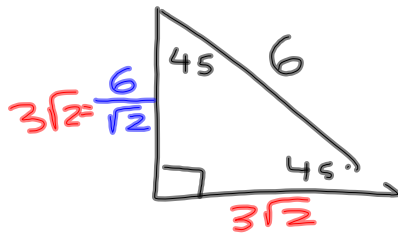
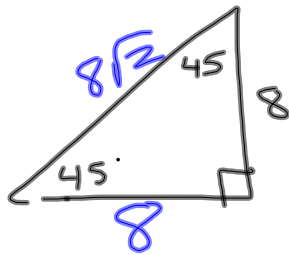
$$x = \sqrt{\frac{2 \cdot 9}{2 \cdot 3 \cdot 3}} = \sqrt{18} = 3\sqrt{2}$$

$$y = \sqrt{2 \cdot 7} = \sqrt{14}$$

$$z = \sqrt{\frac{7 \cdot 9}{7 \cdot 3 \cdot 3}} = \sqrt{63} = 3\sqrt{7}$$



$$\frac{7}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{7\sqrt{3}}{3}$$



$$\frac{6}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{6\sqrt{2}}{2} = 3\sqrt{2}$$

Simplif y $\frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$