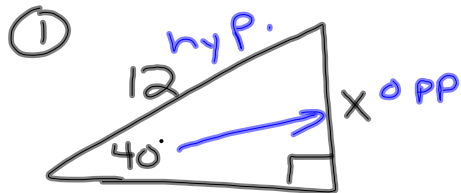


3-14-14

1<sup>st</sup> Geo

Review ch. 8

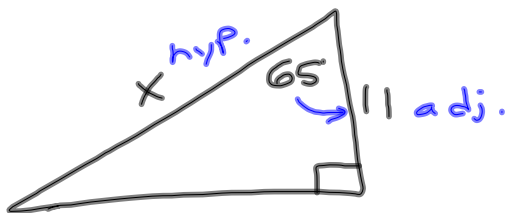


SOH CAH TOA

$$\frac{\sin 40^\circ}{1} = \frac{X}{12}$$

$$X = 12 \cdot \sin 40^\circ$$

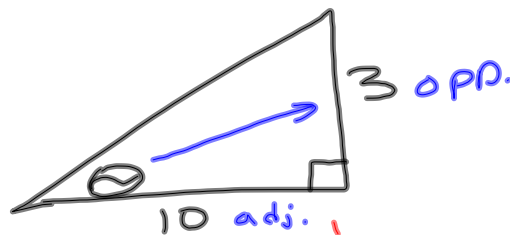
$$X \approx 7.7$$



$$\frac{\cos 65^\circ}{1} = \frac{11}{X}$$

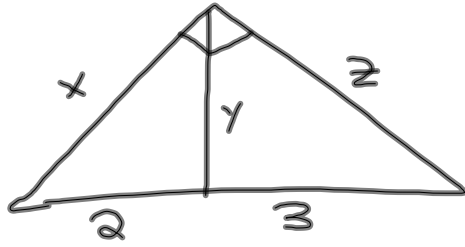
$$\frac{X \cdot \cancel{\cos 65^\circ}}{\cancel{\cos 65^\circ}} = \frac{11}{\cancel{\cos 65^\circ}}$$

$$X \approx 26.0$$



$$\tan^{-1} \tan \theta = \tan^{-1} \frac{3}{10}$$

$$\theta \approx 16.7^\circ$$



$$x = \sqrt{2 \cdot 5} = \sqrt{10}$$

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

$$z = \sqrt{3 \cdot 5} = \sqrt{15}$$

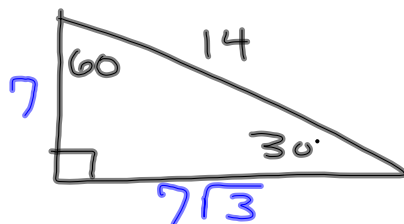
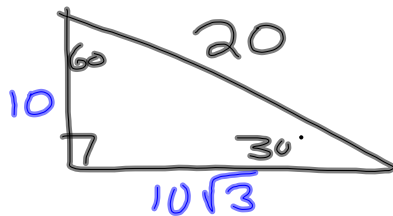
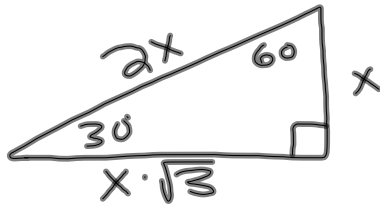
Simplify  $\sqrt{80}$

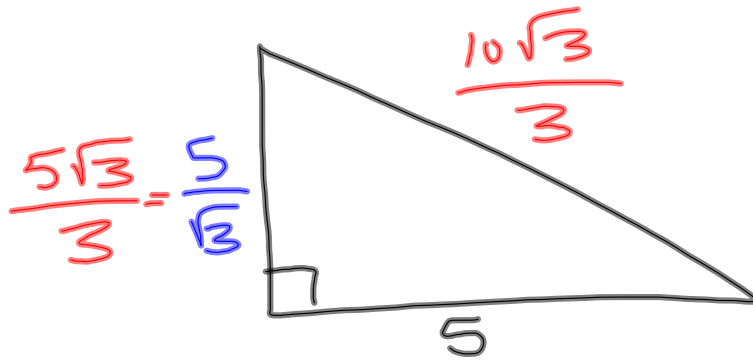


$$\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}$$

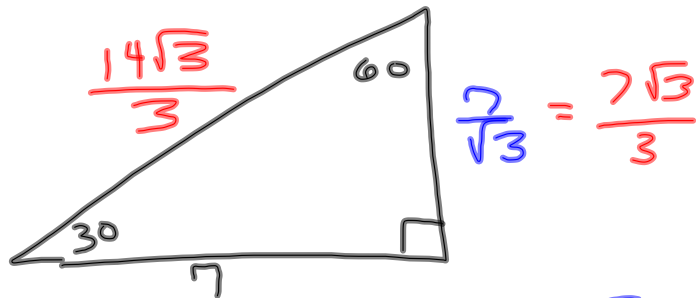
$$2 \cdot 2 \sqrt{5}$$

$$4\sqrt{5}$$

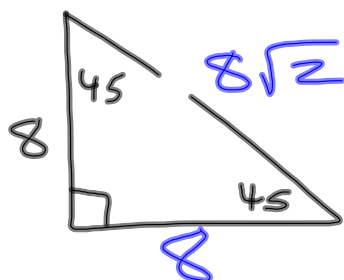
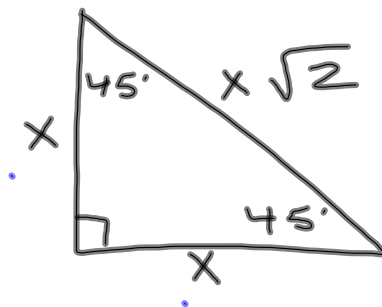


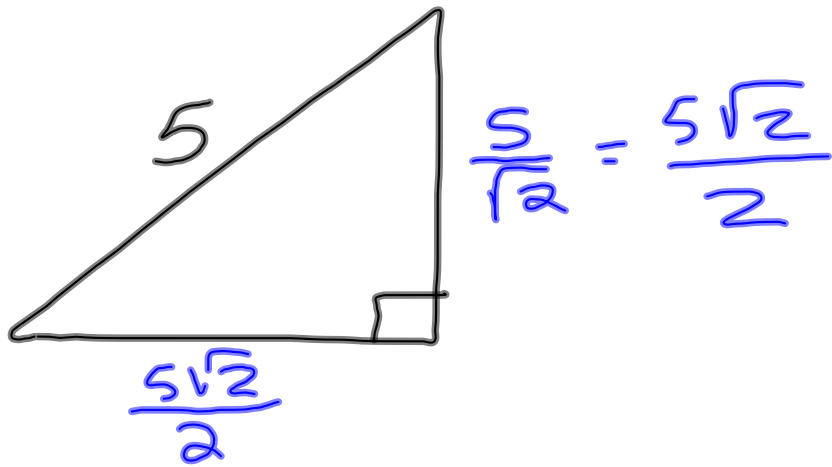


$$\frac{5}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$$



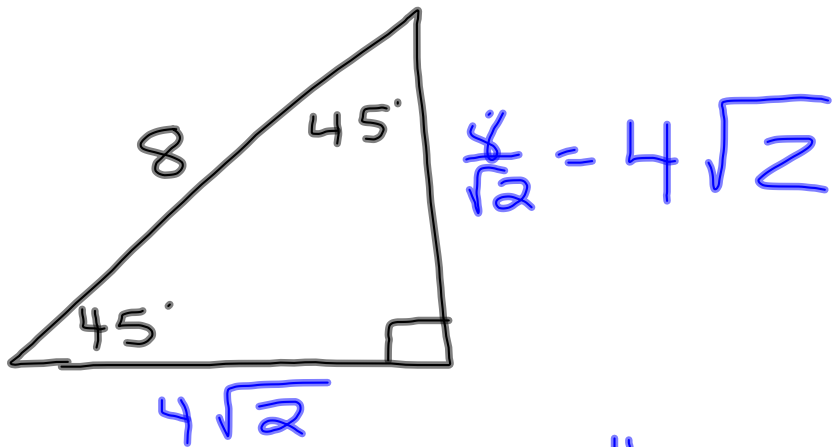
$$\frac{7}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{7\sqrt{3}}{3}$$





$$\frac{5}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$$

$$\frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$$



$$\frac{8}{\sqrt{2}} = 4\sqrt{2}$$

$$\frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{8\sqrt{2}}{2} = 4\sqrt{2}$$