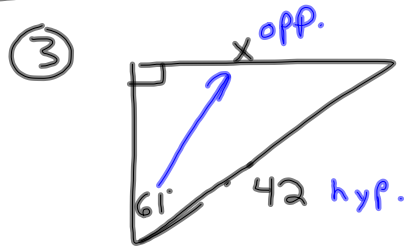


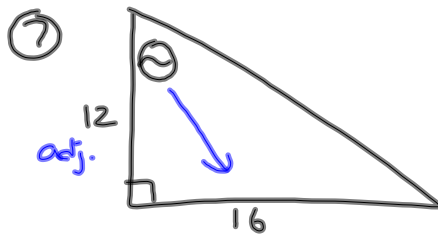
2-20-14
54 Geo

Ch. 8 Pt 1



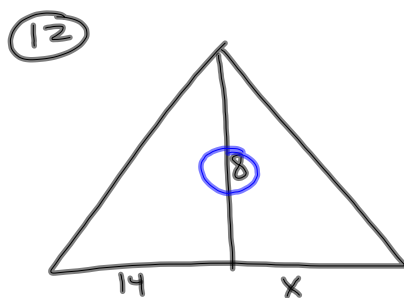
$$\frac{\sin 61^\circ}{1} = \frac{x}{42}$$

$$x = 42 \cdot \sin 61^\circ$$
$$x \approx 36.7$$



$$\tan \theta = \frac{\text{opp}}{\text{adj}} = \frac{16}{12}$$

$$\theta \approx 53.1^\circ$$

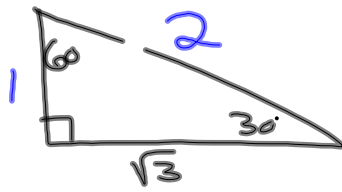


$$8^2 = \sqrt{14 \cdot x}^2$$

$$\frac{64}{14} = \frac{14x}{14}$$

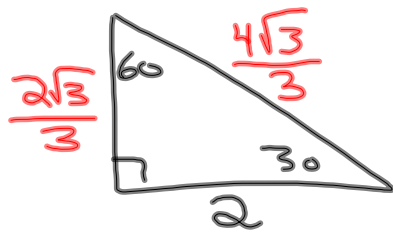
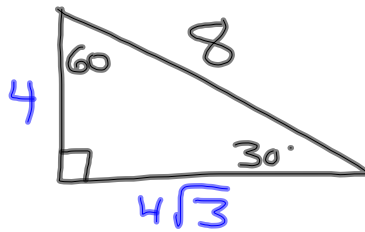
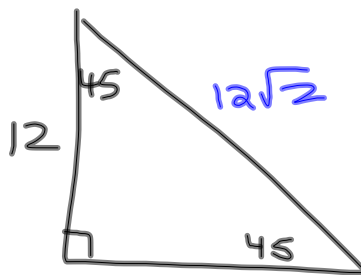
$$\frac{64}{14} = x$$

18

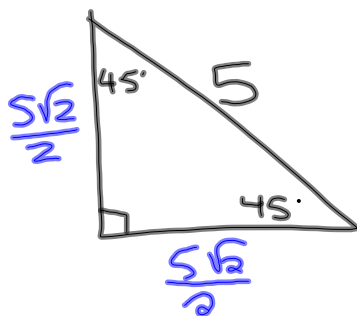


$$\frac{\sqrt{3}}{\sqrt{3}}$$

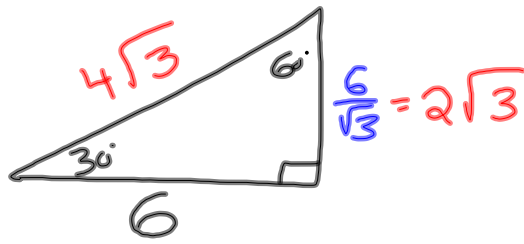
24



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



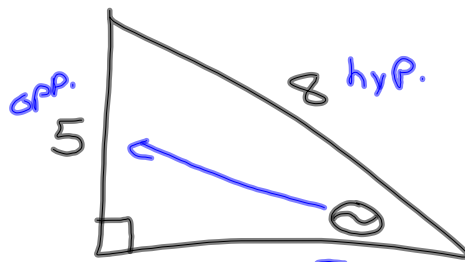
$$\frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$$



$$\frac{6}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{1}$$

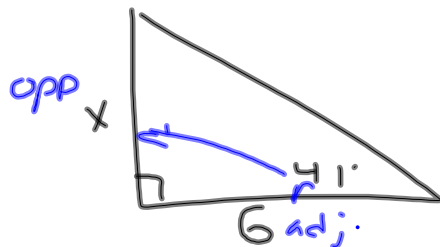
① Rationalize $\frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{2}}{1}$

② $2\sqrt{3} \cdot 4\sqrt{2} = 8\sqrt{6}$



$$\sin^{-1} \sin \theta = \sin^{-1} \frac{5}{8}$$

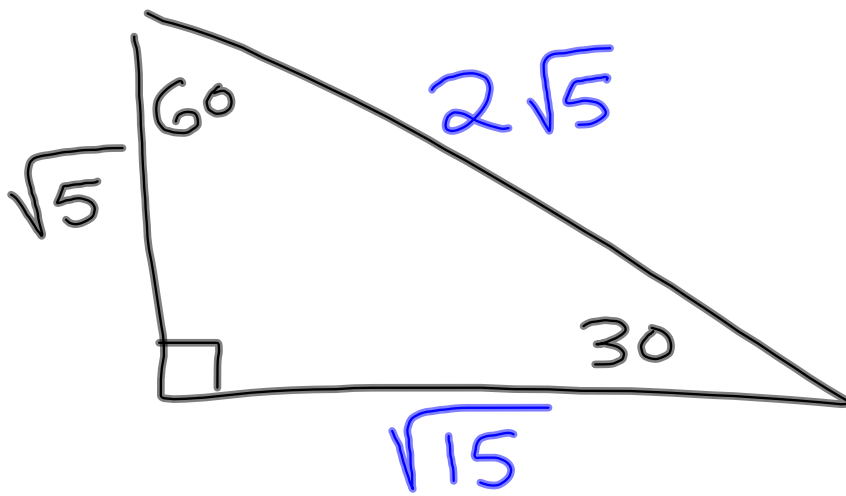
$$\theta \approx 38.7^\circ$$



$$\frac{\tan 41^\circ}{1} = \frac{x}{6}$$

$$x = 6 \cdot \tan 41^\circ$$

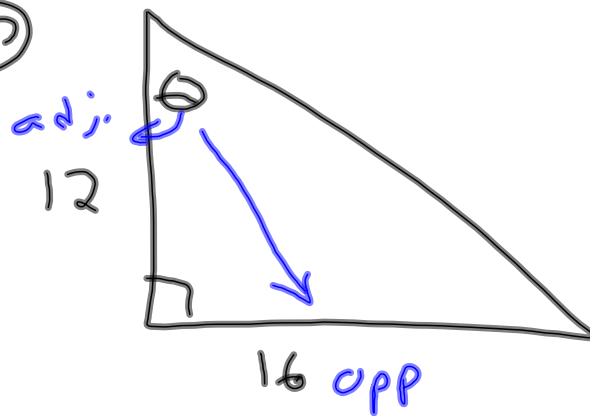
$$x \approx 5.2$$



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

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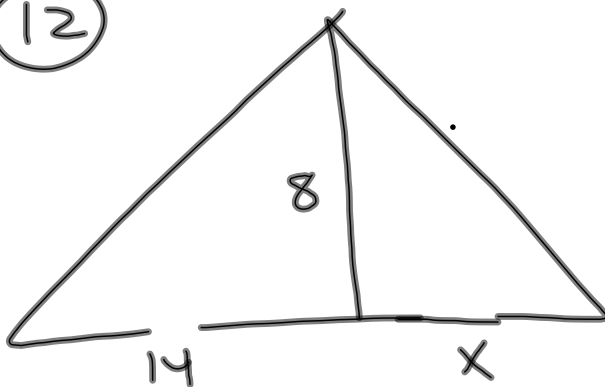
⑨



$$\tan^{-1} \tan \theta = \tan^{-1} \frac{16}{12}$$

$$\theta \approx 53.1^\circ$$

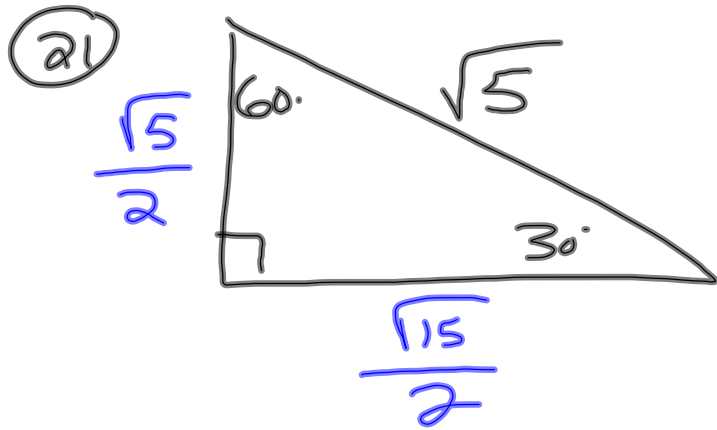
⑫



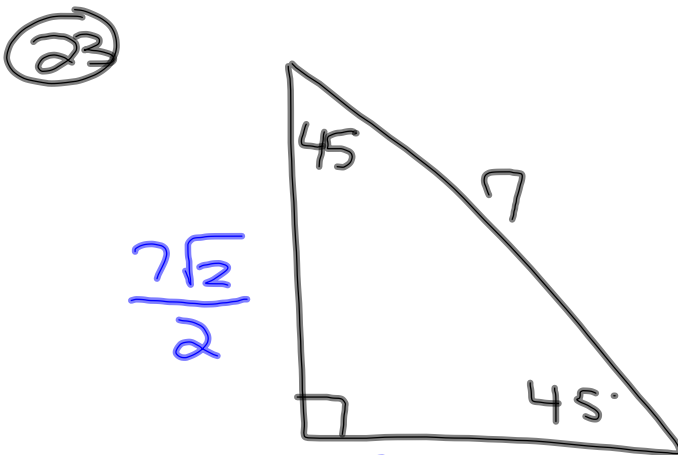
$$8^2 = \sqrt{14 \cdot x}^2$$

$$\frac{64}{14} = \frac{14 \cdot x}{14}$$

$$x = 4\frac{4}{7}$$

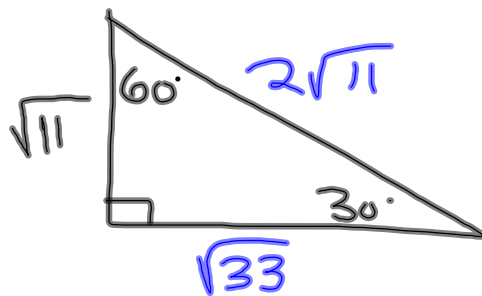


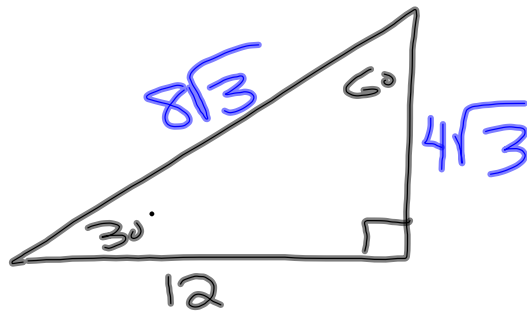
$$\frac{\sqrt{5}}{2} \cdot \frac{\sqrt{3}}{1} = \frac{\sqrt{15}}{2}$$



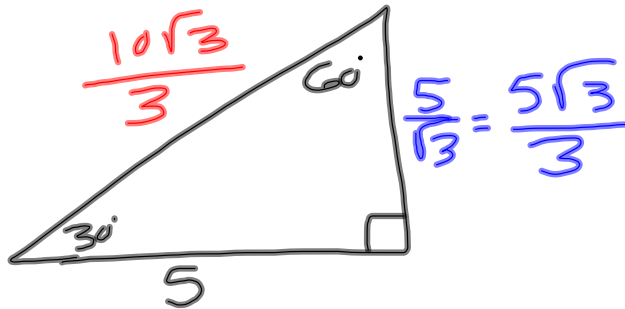
$$\frac{7}{\sqrt{2}} = \frac{7\sqrt{2}}{2}$$

$$\frac{7}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7\sqrt{2}}{2}$$



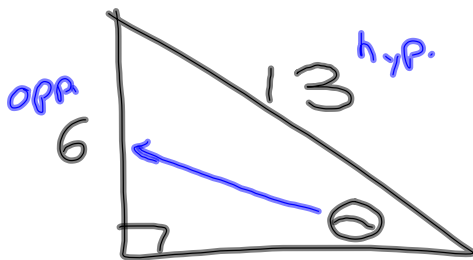


$$\frac{12}{\sqrt{3}} \cdot \frac{\sqrt{3}}{3} = \frac{12\sqrt{3}}{3} = 4\sqrt{3}$$



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

$$\frac{5\sqrt{3}}{3} \cdot \frac{2}{1} = \frac{10\sqrt{3}}{3}$$



$$\sin^{-1} \sin \theta = \sin^{-1} \frac{6}{13}$$

$$\theta \approx 27.49^\circ$$

$$\textcircled{1} \quad 2\sqrt{3} \cdot 5\sqrt{7} = 10\sqrt{21}$$

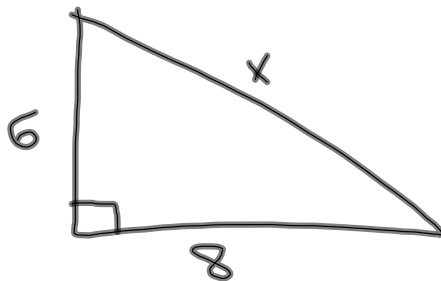
$$\textcircled{2} \quad \sin \theta = \frac{1}{2} \quad \text{Find } \theta.$$

$$\theta = \sin^{-1}\left(\frac{1}{2}\right)$$

$$\theta \approx 30^\circ$$

$$\textcircled{3} \quad \text{Rationalize } \frac{2}{\sqrt{7}}$$

$$\frac{2}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{2\sqrt{7}}{7}$$



$$6^2 + 8^2 = x^2$$

$$100 = x^2$$

$$x = 10$$