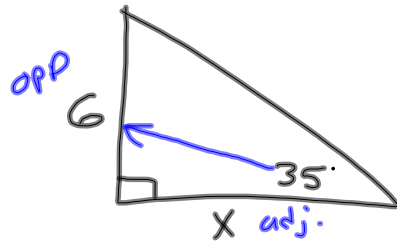


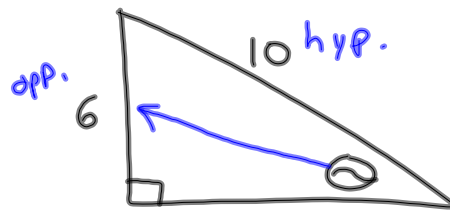
2-19-14
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 Ch. 8 Review



$$\frac{\tan 35^\circ}{1} = \frac{6}{X}$$

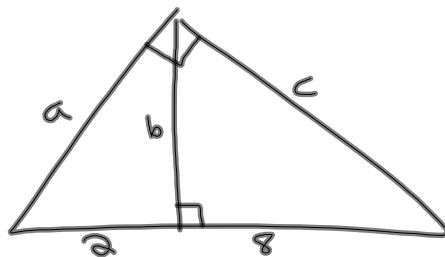
$$\frac{X \cdot \tan 35^\circ}{\tan 35^\circ} = \frac{6}{\tan 35^\circ}$$

$$X \approx 8.57$$



$$\sin^{-1} \sin \theta = \sin^{-1} \frac{6}{10}$$

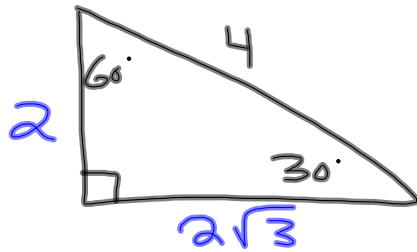
$$\theta \approx 36.9^\circ$$



$$a = \sqrt{2 \cdot 10} = \sqrt{20} = 2\sqrt{5}$$

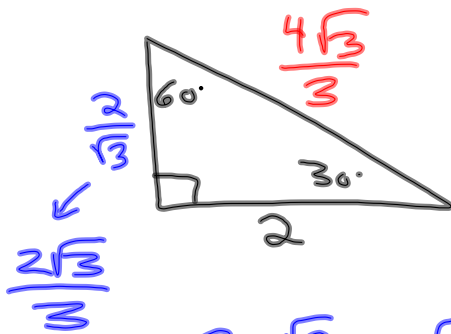
$$b = \sqrt{2 \cdot 8} = \sqrt{16} = 4$$

$$c = \sqrt{8 \cdot 10} = \sqrt{80} = 4\sqrt{5}$$

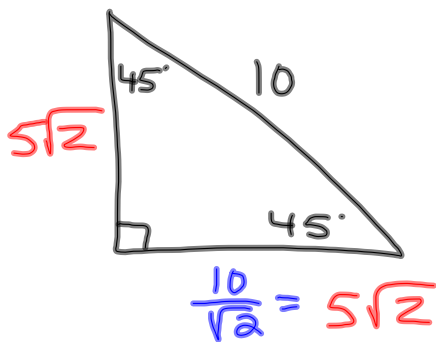


Rationalize the fraction.

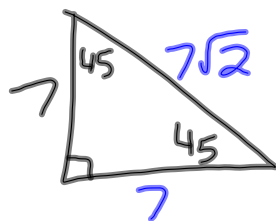
$$\frac{5}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} = \frac{\cancel{5}\sqrt{10}}{\cancel{10}_2} = \frac{\sqrt{10}}{2}$$

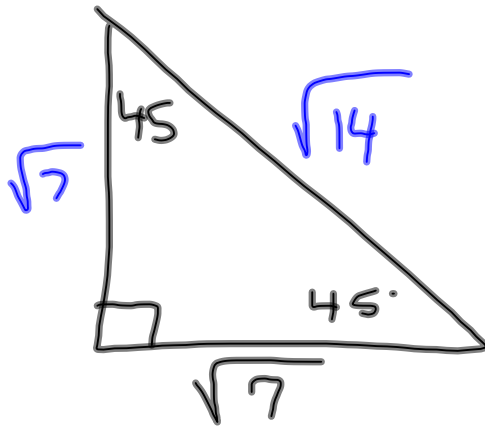


$$\frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$



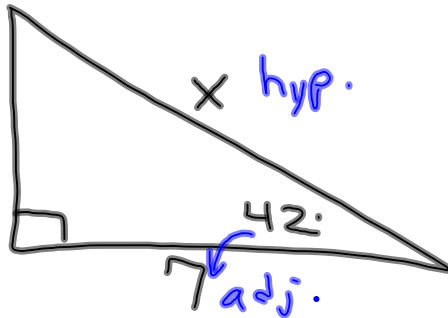
$$\frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\cancel{10}\sqrt{2}}{\cancel{2}_1} = 5\sqrt{2}$$





$$\textcircled{1} \quad \sqrt{5} \cdot \sqrt{3} = \sqrt{15}$$

$$\textcircled{2} \quad 2\sqrt{3} \cdot 5\sqrt{2} = 10\sqrt{6}$$



$$\frac{\cos 42^\circ}{1} = \frac{7}{x}$$

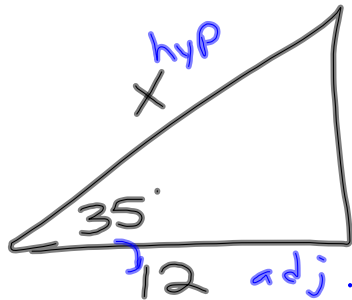
$$\frac{x \cdot \cos 42^\circ}{\cos 42^\circ} = \frac{7}{\cos 42^\circ}$$

$$x \approx 9.42$$

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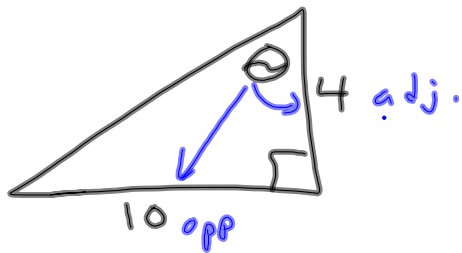
Ch. 8 Review



$$\frac{\cos 35^\circ}{1} = \frac{12}{X}$$

$$\frac{X \cdot \cancel{\cos 35^\circ}}{\cancel{\cos 35^\circ}} = \frac{12}{\cancel{\cos 35^\circ}}$$

$$X \approx 14.65$$

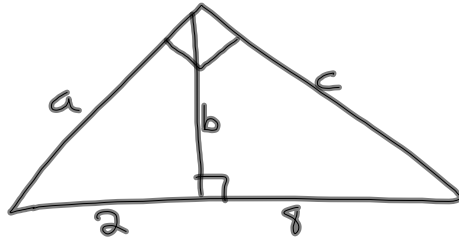


$$\cancel{\tan^{-1} \tan} \theta = \tan^{-1} \frac{10}{4}$$

$$\theta \approx 68.20^\circ$$

Simplify $\sqrt{40}$

$$\begin{array}{c} 40 \\ \wedge \\ 4 \quad 10 \\ \wedge \quad \wedge \\ (2)(2) \quad (2)(5) \end{array} \quad \begin{array}{c} \sqrt{2 \cdot 2 \cdot 2 \cdot 5} \\ \sqrt{2 \cdot 10} \end{array}$$



$$a = \sqrt{2 \cdot 10} = \sqrt{20} = 2\sqrt{5}$$

$$b = \sqrt{2 \cdot 8} = \sqrt{16} = 4$$

$$c = \sqrt{8 \cdot 10} = \sqrt{80} = 4\sqrt{5}$$

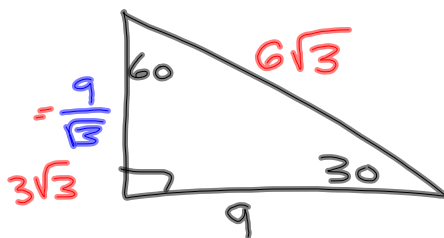
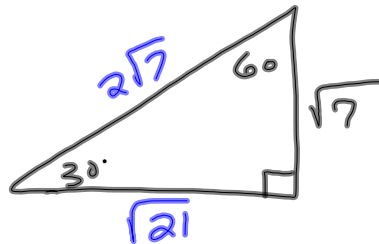
$$\textcircled{1} \quad \sqrt{3} \cdot \sqrt{5} = \sqrt{15}$$

$$\textcircled{2} \quad 2\sqrt{3} \cdot 5\sqrt{2} = 10\sqrt{6}$$

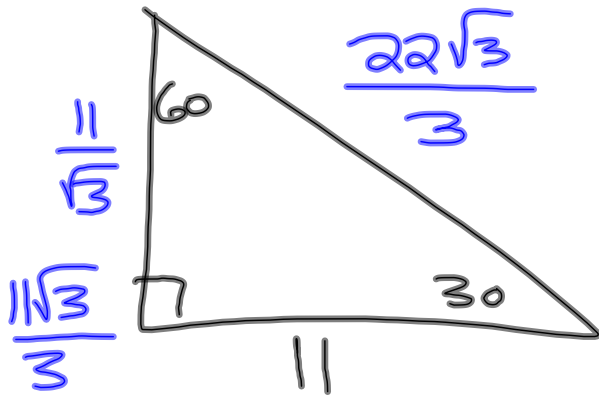
$$\textcircled{3} \quad 2\sqrt{3} \cdot 5\sqrt{3} = 10\sqrt{9}$$

3
10 · 3

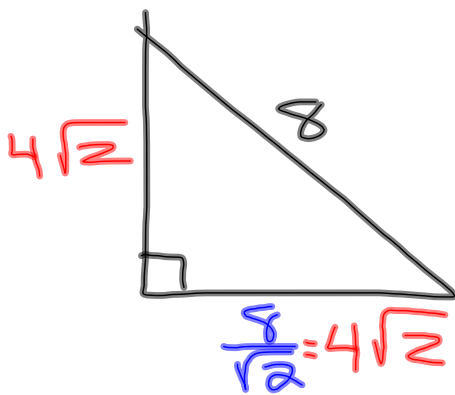
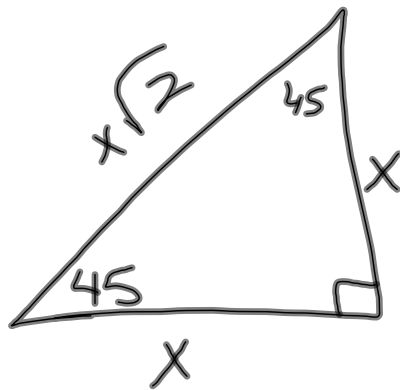
30



$$\frac{9}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{9\sqrt{3}}{3} = 3\sqrt{3}$$



$$\frac{11}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{11\sqrt{3}}{3}$$



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