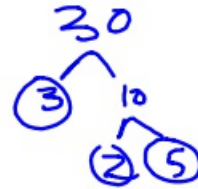
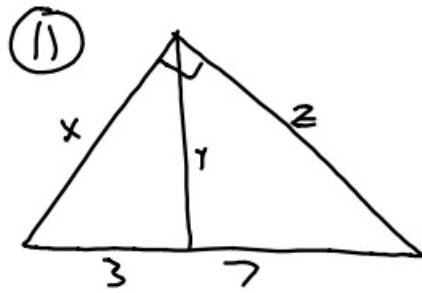


1-24-18 5th Geo

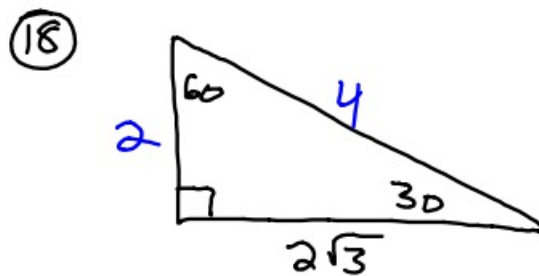
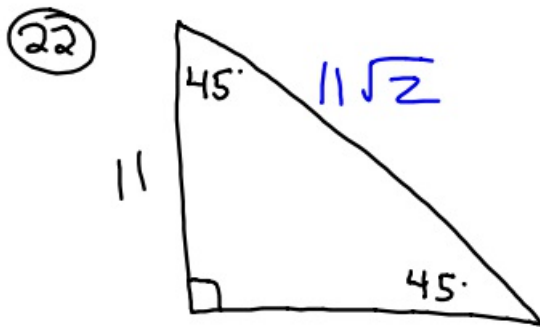
Ch. 8 PT 2



$$x = \sqrt{3 \cdot 10} = \sqrt{30}$$

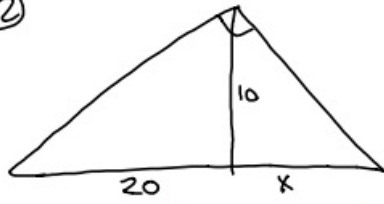
$$y = \sqrt{3 \cdot 7} = \sqrt{21}$$

$$z = \sqrt{7 \cdot 10} = \sqrt{70}$$



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

12



$$10 = \sqrt{20 \cdot x}$$

$$100 = 20x$$

$$x = 5$$

New Practice

1



SOH
CAH
TOA

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

$$\theta \approx 17.5^\circ$$

2 Solve for θ

$$3 + 4 \sin \theta = 6$$

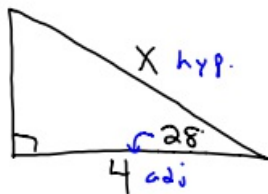
$$\frac{-3}{-3} \qquad \frac{-3}{-3}$$

$$4 \sin \theta = 3$$

$$\sin^{-1} \sin \theta = \sin^{-1} \frac{3}{4}$$

$$\theta \approx 48.6^\circ$$

3

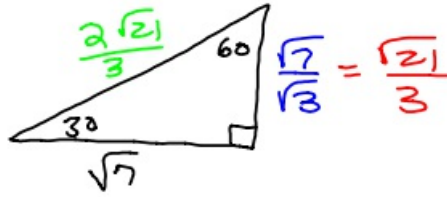


$$\frac{\cos 28^\circ}{1} = \frac{4}{x}$$

$$\frac{x \cdot \cos 28^\circ}{\cos 28^\circ} = \frac{4}{\cos 28^\circ}$$

$$x = 4.5$$

④

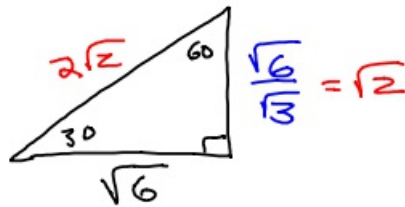


$$\frac{\sqrt{17}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{21}}{3}$$

$$\frac{\sqrt{21}}{3} \cdot \frac{2}{1} \cdot \frac{2\sqrt{21}}{3}$$

⑤ $2\sqrt{3} \cdot 3\sqrt{5}$

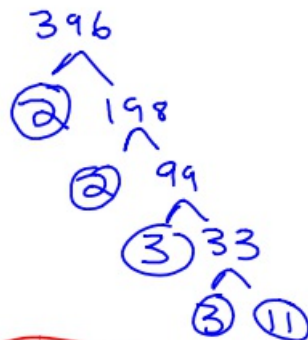
⑥



$$\frac{\sqrt{6}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{18}}{3} = \frac{\cancel{3}\sqrt{2}}{\cancel{3}}$$

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

⑦ Simplify $\sqrt{396}$

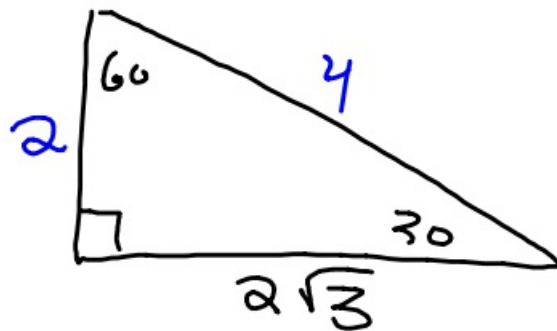


$$3 \cdot 2 \sqrt{2 \cdot 2 \cdot 3 \cdot 3} \cdot 11$$

$$6\sqrt{11}$$

1-24-18 6th Geo

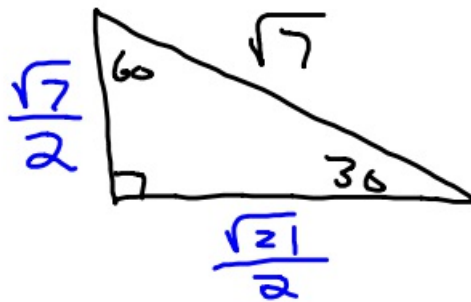
(18)



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

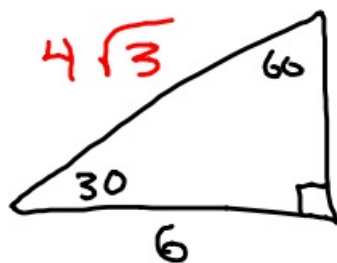
~~$$\frac{2\sqrt{3}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$~~

(21)



$$\frac{\sqrt{7}}{2} \cdot \frac{\sqrt{3}}{1} =$$

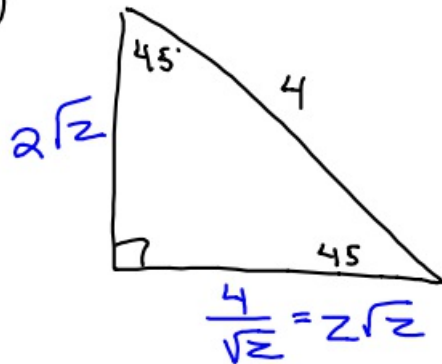
(20)



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

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

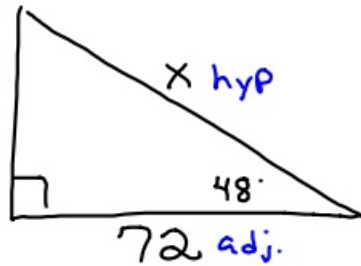
23



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

New Practice

①



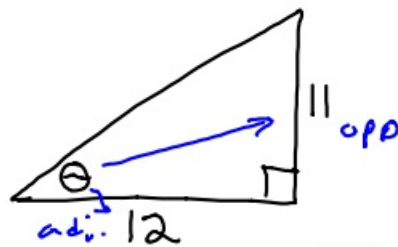
SOH
CAH
TOA

$$\frac{\cos 48^\circ}{1} = \frac{72}{x}$$

$$\frac{x \cdot \cancel{\cos 48^\circ}}{\cancel{\cos 48^\circ}} = \frac{72}{\cos 48^\circ}$$

$$x \approx 107.6$$

②



$$\tan^{-1} \tan \theta = \tan^{-1} \frac{11}{12}$$

$$\theta \approx 42.5^\circ$$

$$\textcircled{3} \quad 2\sqrt{3} \cdot 5\sqrt{5}$$

$$10\sqrt{15}$$

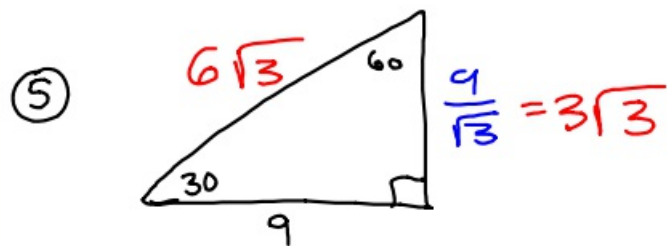
$$\textcircled{4} \quad 2\sqrt{8} \cdot 2\sqrt{3}$$

$$4\sqrt{24}$$

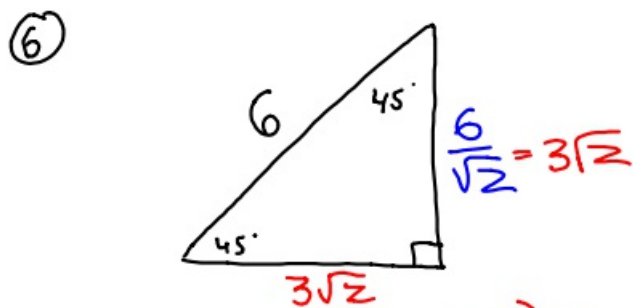
$$24 \begin{matrix} \wedge \\ \textcircled{2} \end{matrix} \begin{matrix} \wedge \\ \textcircled{12} \end{matrix} \begin{matrix} \wedge \\ \textcircled{2} \end{matrix} \begin{matrix} \wedge \\ \textcircled{6} \end{matrix} \begin{matrix} \wedge \\ \textcircled{2} \end{matrix}$$

$$2 \cdot 4 \sqrt{2 \cdot 2 \cdot 2 \cdot 3}$$

$$8\sqrt{6}$$



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



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