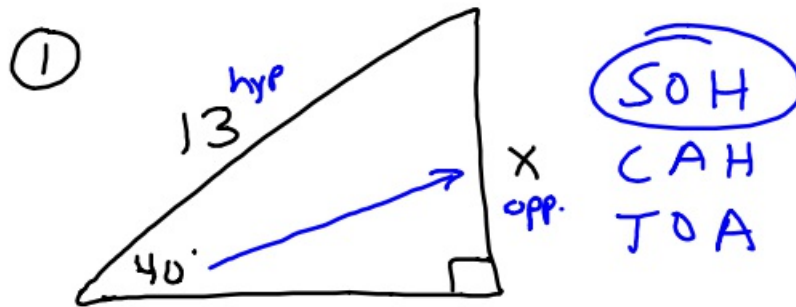


1-15-19

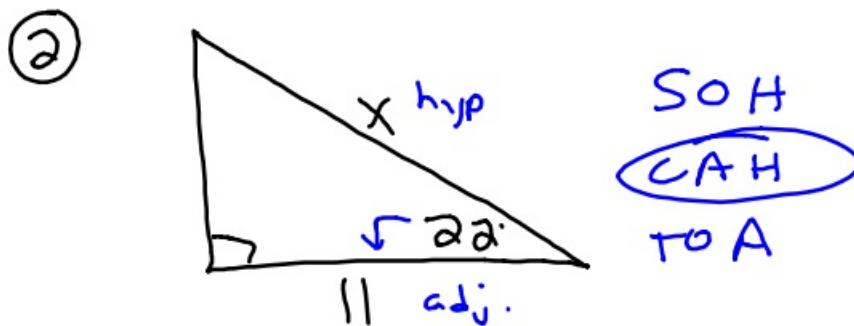
Chapter 8 Review



$$\frac{\sin 40^\circ}{1} = \frac{x}{13}$$

$$x = 13 \cdot \sin 40^\circ$$

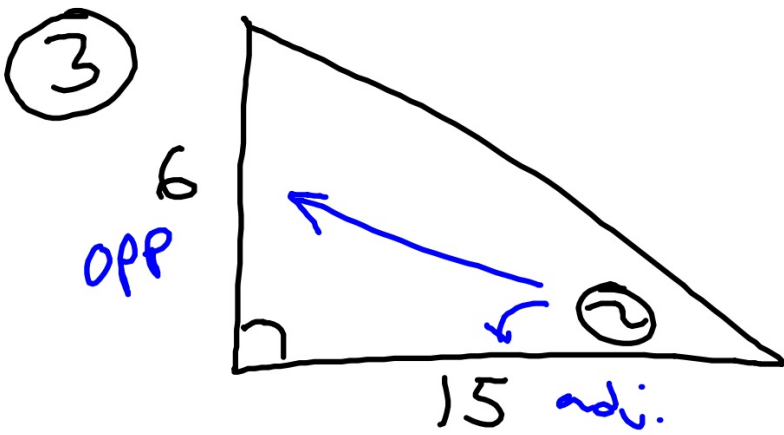
$$x \approx 8.4$$



$$\frac{\cos 22^\circ}{1} = \frac{11}{x}$$

$$\frac{x \cdot \cancel{\cos 22^\circ}}{\cancel{\cos 22^\circ}} = \frac{11}{\cos 22^\circ}$$

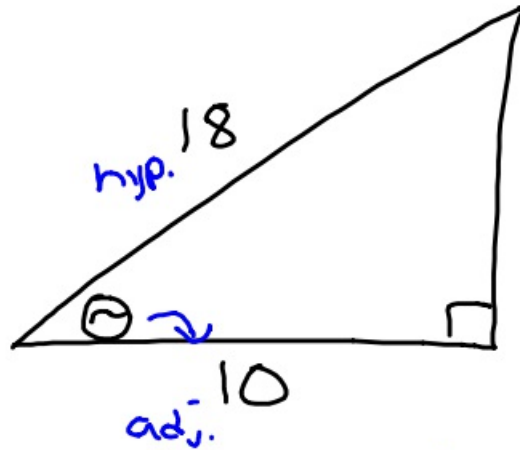
$$x \approx 11.9$$



TOA: ~~\tan^{-1}~~ $\tan \theta = \frac{6}{15}$

$\theta \approx 21.8^\circ$

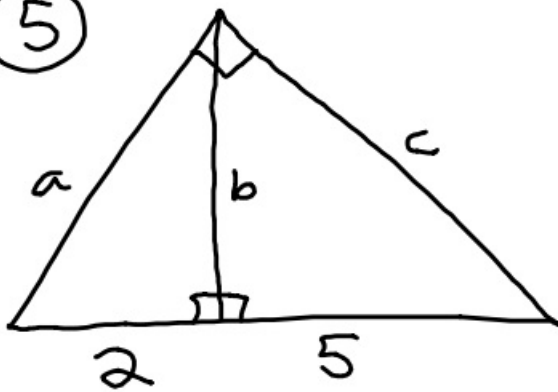
④



$$\cos^{-1} \cos \theta = \cos^{-1} \frac{10}{18}$$

$$\theta \approx 56.3^\circ$$

⑤

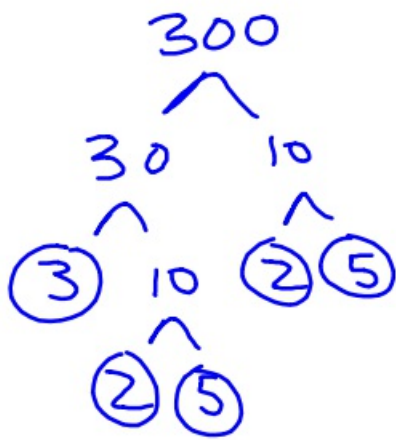


$$a = \sqrt{2 \cdot 7} = \sqrt{14}$$

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

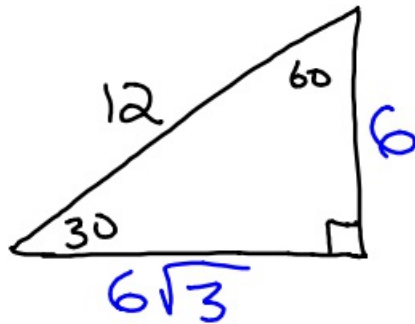
$$c = \sqrt{5 \cdot 7} = \sqrt{35}$$

⑥ Simplify $\sqrt{300}$

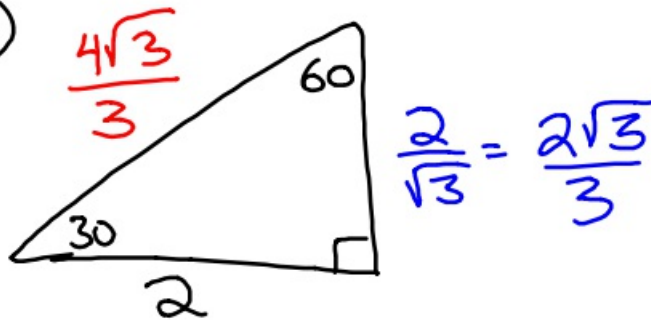


$$5 \cdot 2 \sqrt{2 \cdot 2 \cdot 5 \cdot 5} \cdot 3$$
$$10\sqrt{3}$$

⑦

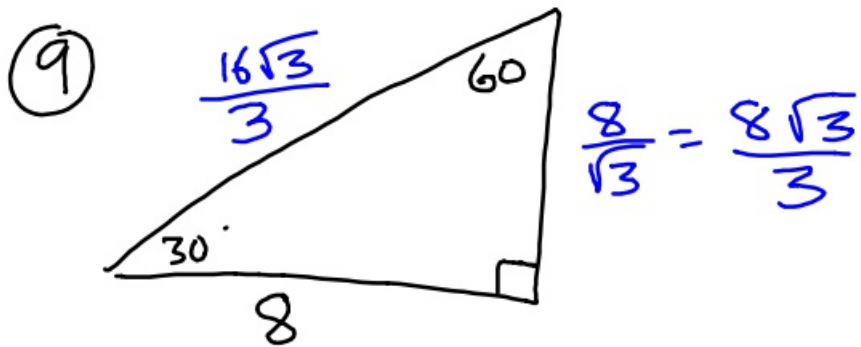


⑧

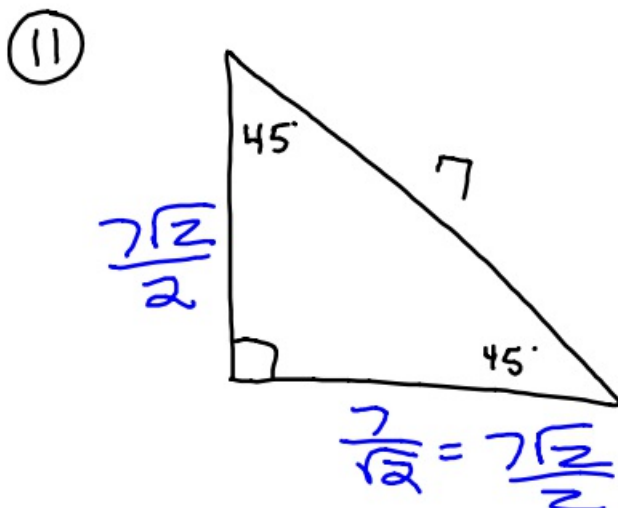
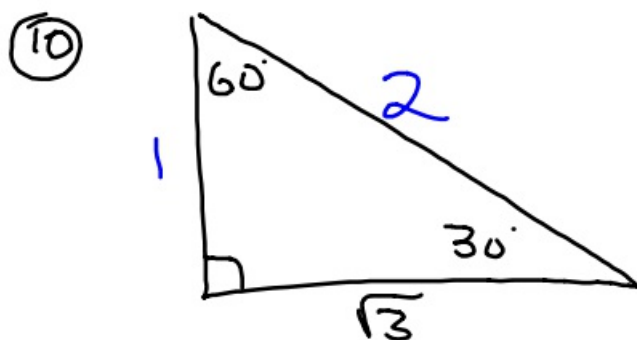


$$\frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$

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

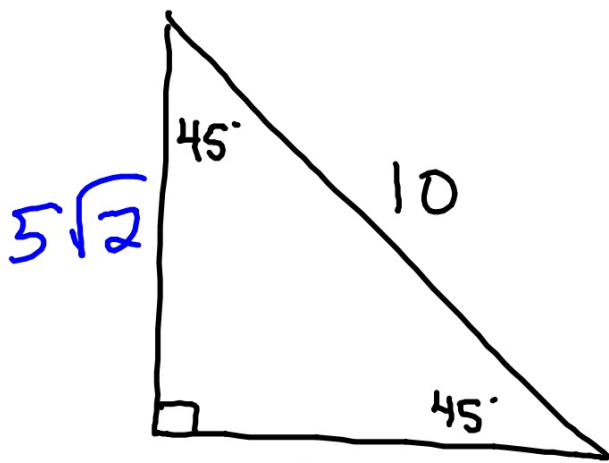


$$\frac{8}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{8\sqrt{3}}{3}$$



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

12

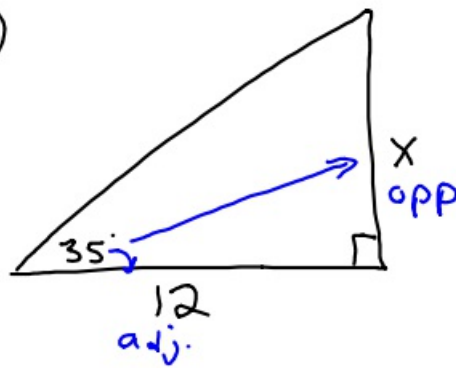


$$\frac{10}{\sqrt{2}} = 5\sqrt{2}$$

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

1-15-19 6th Geo

①



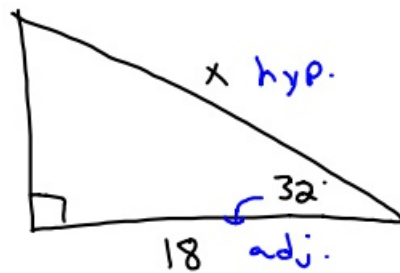
SOH
CAH
TOA

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

$$X = 12 \cdot \tan 35^\circ$$

$$X \approx 8.4$$

②

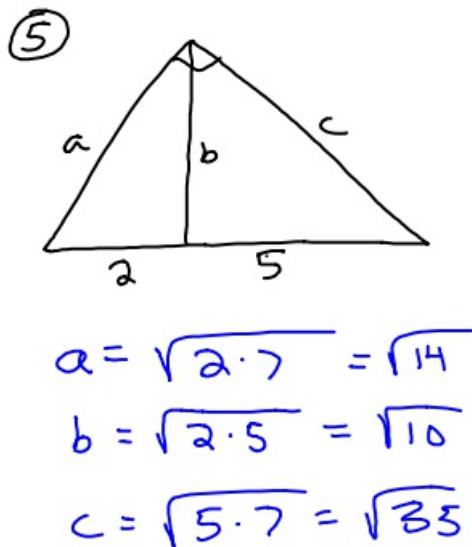
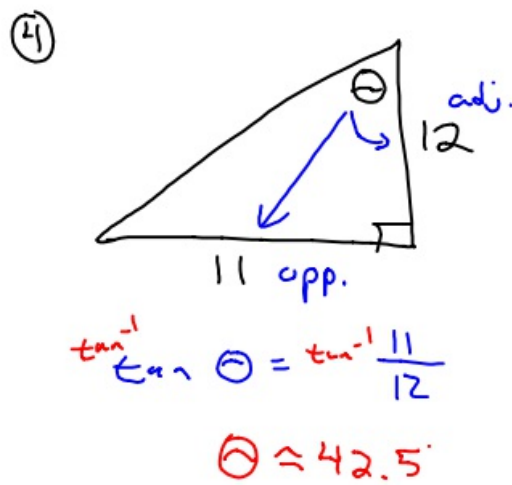
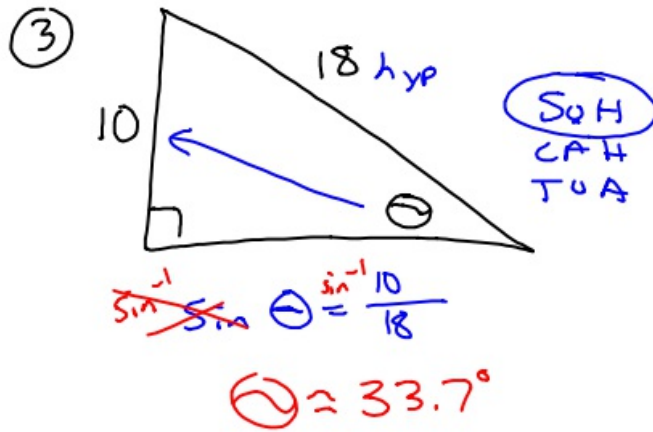


SOH
CAH
TUA

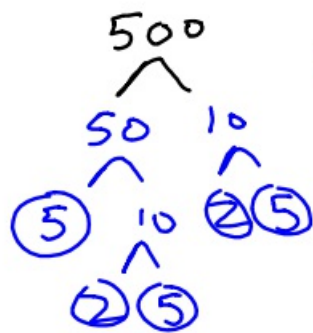
$$\frac{\cos 32^\circ}{1} = \frac{18}{X}$$

$$\frac{X \cdot \cancel{\cos 32^\circ}}{\cancel{\cos 32^\circ}} = \frac{18}{\cos 32^\circ}$$

$$X \approx 21.2$$

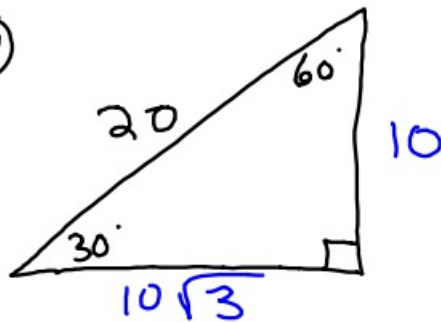


⑥ Simplify $\sqrt{500}$

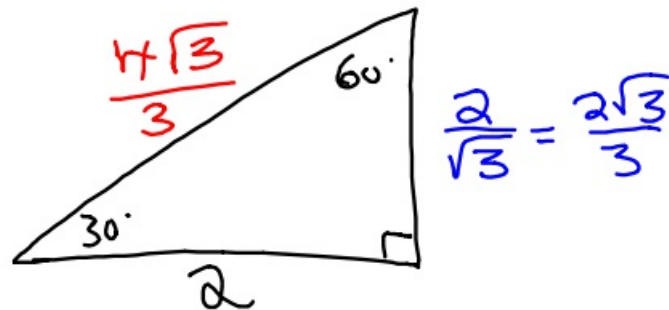


$$2 \cdot 5 \sqrt{2 \cdot 2 \cdot 5 \cdot 5 \cdot 5}$$
$$10\sqrt{5}$$

⑦

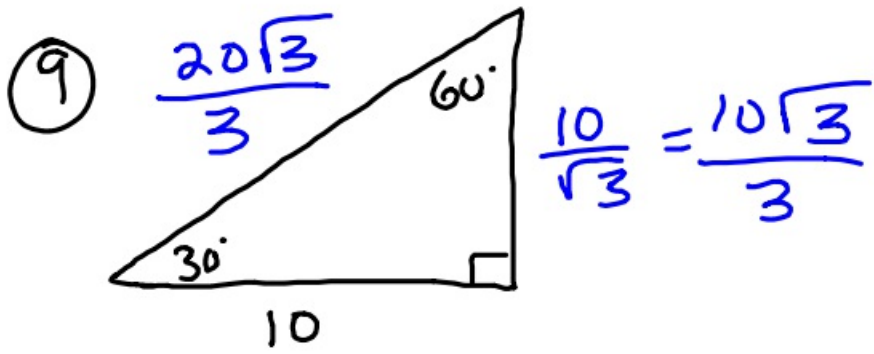


⑧



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

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



$$\frac{10}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{10\sqrt{3}}{3}$$

