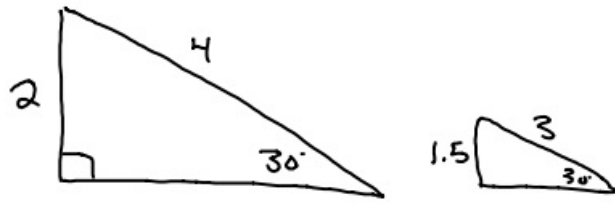
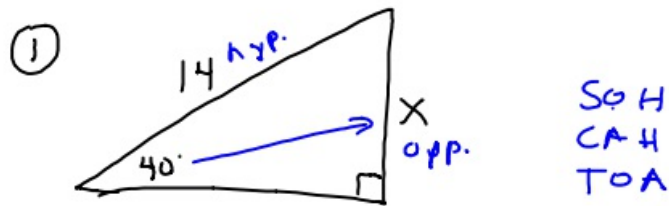


1-26-18 1st Trig



$$\begin{aligned} \text{SOH} &\rightarrow \sin \theta = \frac{\text{opp}}{\text{hyp}} \\ \text{CAH} &\rightarrow \cos \theta = \frac{\text{adj}}{\text{hyp}} \\ \text{TOA} &\rightarrow \tan \theta = \frac{\text{opp}}{\text{adj}} \end{aligned}$$

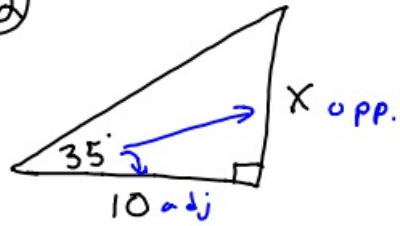


$$\frac{\sin 40^\circ}{1} = \frac{X}{14}$$

$$X = 14 \cdot \sin 40^\circ$$

$$X \approx 9.0$$

②

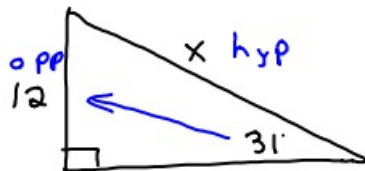


$$\frac{\tan 35^\circ}{1} = \frac{X}{10}$$

$$X = 10 \cdot \tan 35^\circ$$

$$X \approx 7.0$$

③



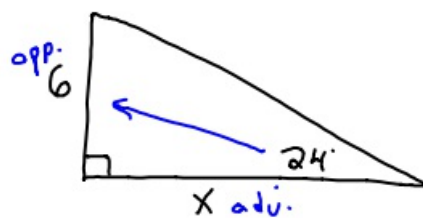
SOH
CAH
TOA

$$\frac{\sin 31^\circ}{1} = \frac{12}{X}$$

$$\frac{X \cdot \cancel{\sin 31^\circ}}{\cancel{\sin 31^\circ}} = \frac{12}{\cancel{\sin 31^\circ}}$$

$$X \approx 23.3$$

④



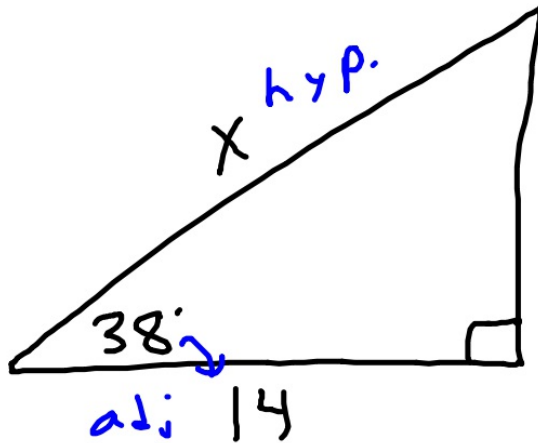
TOA

$$\frac{\tan 24^\circ}{1} = \frac{6}{X}$$

$$\frac{X \cdot \cancel{\tan 24^\circ}}{\cancel{\tan 24^\circ}} = \frac{6}{\cancel{\tan 24^\circ}}$$

$$X \approx 13.5$$

5

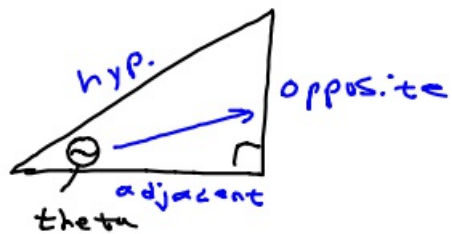
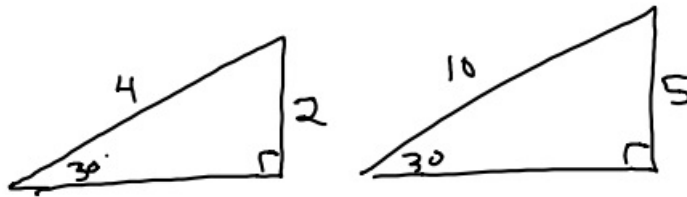


$$\frac{\cos 38^\circ}{1} = \frac{14}{x}$$

$$\frac{x - \cos 38^\circ}{\cos 38^\circ} = \frac{14}{\cos 38^\circ}$$

$$x \approx 17.8$$

1-26-18 3rd Trig

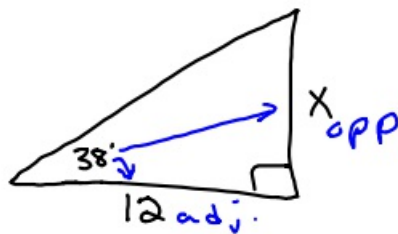


$$\text{SOH} \rightarrow \sin \theta = \frac{\text{opp.}}{\text{hyp.}}$$

$$\text{CAH} \rightarrow \cos \theta = \frac{\text{adj.}}{\text{hyp.}}$$

$$\text{TOA} \rightarrow \tan \theta = \frac{\text{opp.}}{\text{adj.}}$$

①



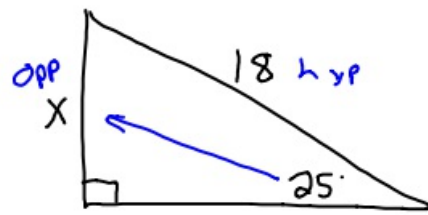
SOH
CAH
TOA

$$\frac{\tan 38^\circ}{1} = \frac{X}{12}$$

$$X = 12 \cdot \tan 38^\circ$$

$$X \approx 9.4$$

2



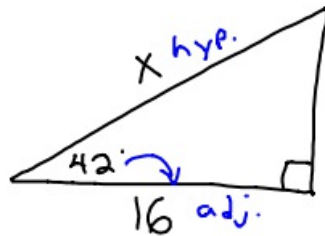
SOH
CAH
TOA

$$\frac{\sin 25^\circ}{1} = \frac{X}{18}$$

$$X = 18 \cdot \sin 25^\circ$$

$$X \approx 7.6$$

3

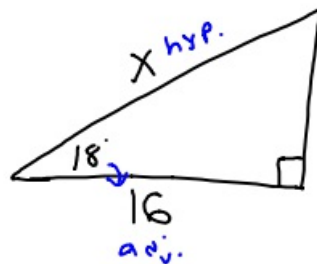


$$\frac{\cos 42^\circ}{1} = \frac{16}{X}$$

$$\frac{X \cdot \cos 42^\circ}{\cancel{\cos 42^\circ}} = \frac{16}{\cos 42^\circ}$$

$$X \approx 21.5$$

4

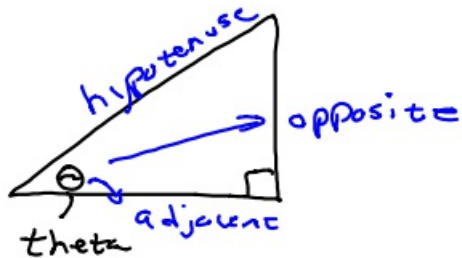
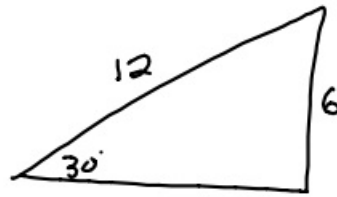
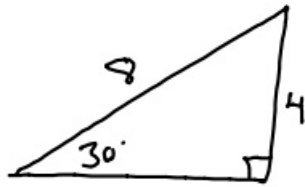


$$\frac{\cos 18^\circ}{1} = \frac{16}{X}$$

$$\frac{X \cdot \cos 18^\circ}{\cancel{\cos 18^\circ}} = \frac{16}{\cos 18^\circ}$$

$$X \approx 16.8$$

1-26-18 4th Trig

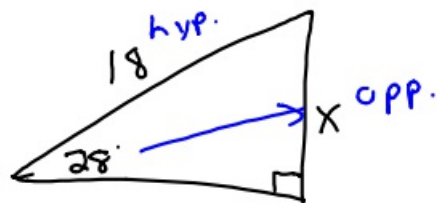


SOH $\sin \theta = \frac{\text{opp.}}{\text{hyp.}}$

CAH $\cos \theta = \frac{\text{adj.}}{\text{hyp.}}$

TOA $\tan \theta = \frac{\text{opp.}}{\text{adj.}}$

①



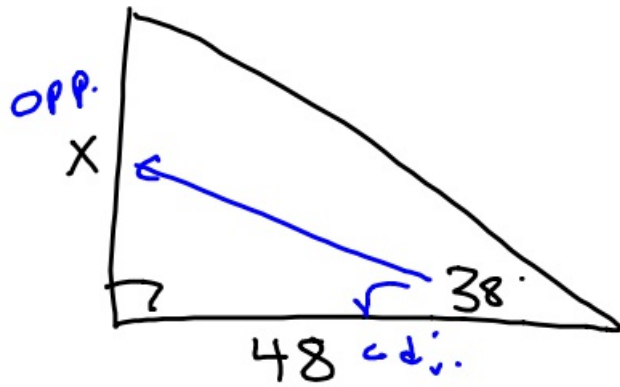
SOH
CAH
TOA

$$\frac{\sin 28^\circ}{1} = \frac{x}{18}$$

$$x = 18 \cdot \sin 28^\circ$$

$$x \approx 8.5$$

②



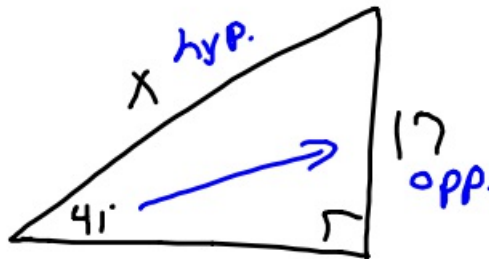
SOH
CAH
TOA

$$\frac{\tan 38^\circ}{1} = \frac{X}{48}$$

$$X = 48 \cdot \tan 38^\circ$$

$$X \approx 37.5$$

③



$$\frac{\sin 41^\circ}{1} = \frac{17}{X}$$

$$\frac{X \cdot \sin 41^\circ}{\sin 41^\circ} = \frac{17}{\sin 41^\circ}$$

$$X \approx 25.9$$