

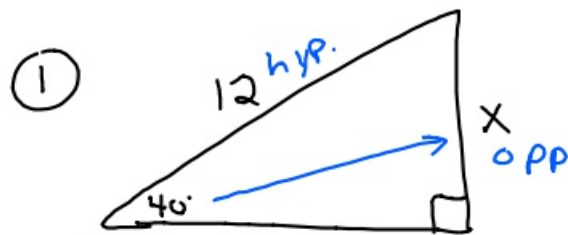
1-21-20 6<sup>th</sup> Geo

SOH CAH TOA

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

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

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

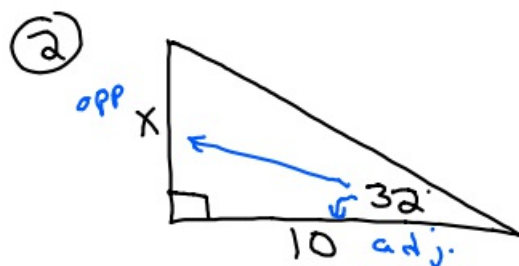


SOH CAH TOA

$$\frac{\sin 40^\circ}{1} = \frac{x}{12}$$

$$x = 12 \cdot \sin 40^\circ$$

$$x \approx 7.7$$

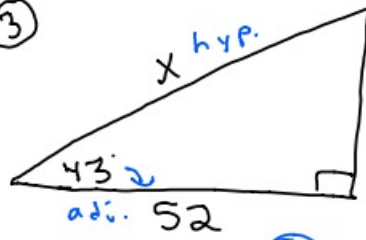


$$\frac{\tan 32^\circ}{1} = \frac{x}{10}$$

$$x = 10 \cdot \tan 32^\circ$$

$$x \approx 6.2$$

③

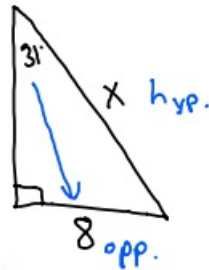


$$\frac{\cos 43^\circ}{1} = \frac{52}{x}$$

$$\frac{x \cdot \cancel{\cos 43^\circ}}{\cancel{\cos 43^\circ}} = \frac{52}{\cos 43^\circ}$$

$$x \approx 71.1$$

④



SOH CAH TOA

$$\frac{\sin 31^\circ}{1} = \frac{8}{x}$$

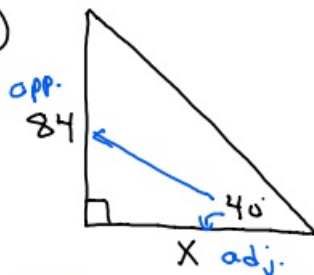
$$\frac{x \cdot \cancel{\sin 31^\circ}}{\cancel{\sin 31^\circ}} = \frac{8}{\sin 31^\circ}$$

$$x \approx 15.5$$

$$x \cdot \sin 31^\circ = \frac{8}{x} \cdot x$$

$$\frac{x \cdot \cancel{\sin 31^\circ}}{\cancel{\sin 31^\circ}} = \frac{8}{\sin 31^\circ}$$

⑤



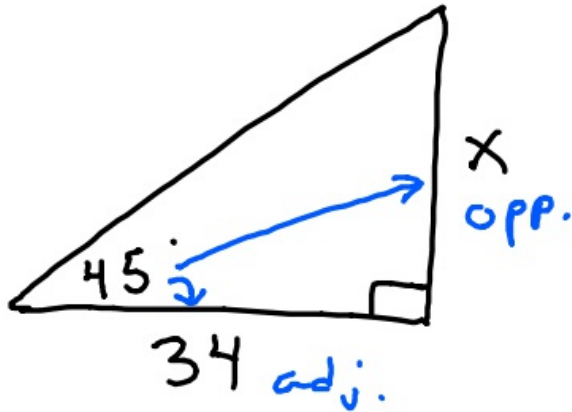
SOH CAH TOA

$$\frac{\tan 40^\circ}{1} = \frac{84}{x}$$

$$\frac{x \cdot \cancel{\tan 40^\circ}}{\cancel{\tan 40^\circ}} = \frac{84}{\tan 40^\circ}$$

$$x \approx 100.1$$

⑥



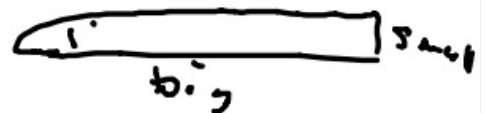
We should realize that it is a right isosceles.  
 $\therefore x = 34.$

$$\frac{\tan 45^\circ}{1} = \frac{x}{34}$$

$$x = 34 \cdot \tan 45^\circ$$

$$x = 34$$

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



1-21-20 7<sup>th</sup> Geo

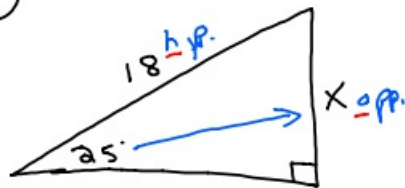
SOH CAH TOA

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

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

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

①



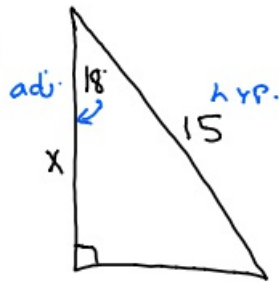
SOH CAH TOA

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

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

$$X \approx 7.6$$

②



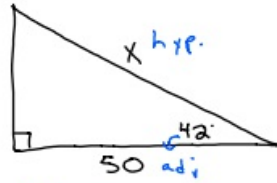
SOH CAH TOA

$$\frac{\cos 18^\circ}{1} = \frac{X}{15}$$

$$X = 15 \cdot \cos 18^\circ$$

$$X \approx 14.3$$

③

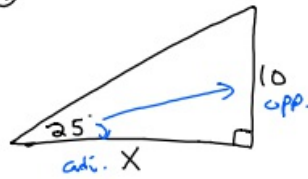


$$\frac{\cos 42^\circ}{1} = \frac{50}{X}$$

$$\frac{X \cdot \cos 42^\circ}{\cos 42^\circ} = \frac{50}{\cos 42^\circ}$$

$$X \approx 67.3$$

④



$$\frac{\tan 25^\circ}{1} = \frac{10}{X}$$

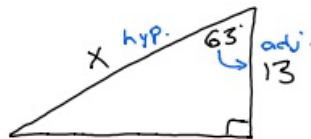
$$\frac{X \cdot \tan 25^\circ}{\tan 25^\circ} = \frac{10}{\tan 25^\circ}$$

$$X \approx 21.4$$

T/O/A  
~~T/A/O~~

S/O/H

⑤



$$\frac{\cos 63^\circ}{1} = \frac{13}{X}$$

$$\frac{X \cdot \cos 63^\circ}{\cos 63^\circ} = \frac{13}{\cos 63^\circ}$$

$$X \approx 28.6$$

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



$$\tan 89^\circ$$



$$\tan 89^\circ = \frac{\text{long}}{\text{small}}$$