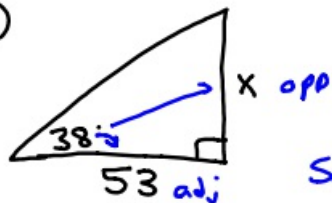


12-14-18 5th Geo

Refresher

①



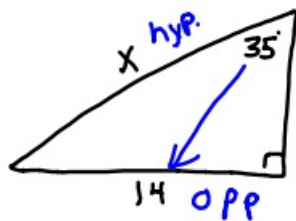
SOH CAH (TOA)

$$\frac{\tan 38^\circ}{1} = \frac{x}{53}$$

$$x = 53 \cdot \tan 38^\circ$$

$$x \approx 41.4$$

②



(SOH)
CAH
TOA

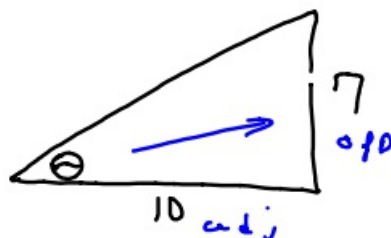
$$\frac{\sin 35^\circ}{1} = \frac{14}{x}$$

$$\frac{x \cdot \sin 35^\circ}{\sin 35^\circ} = \frac{14}{\sin 35^\circ}$$

$$x \approx 24.4$$

Think

③

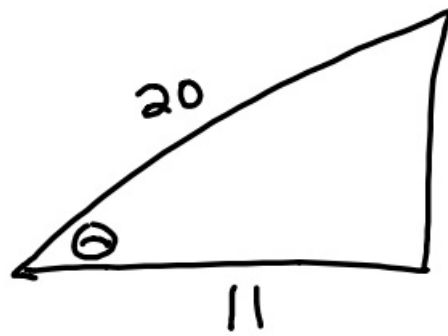


$$\tan \theta = \frac{7}{10}$$

$$\tan \theta = .7$$

$$\theta \approx 35^\circ$$

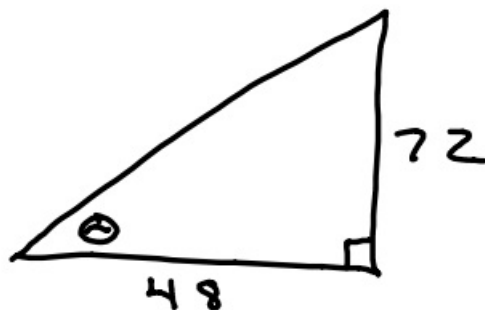
④



$$\cos \theta = \frac{11}{20} = .55$$

$$\theta \approx 56.5^\circ$$

⑤



~~$\tan^{-1} \frac{72}{48}$~~ $\theta = \tan^{-1} \frac{72}{48}$

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

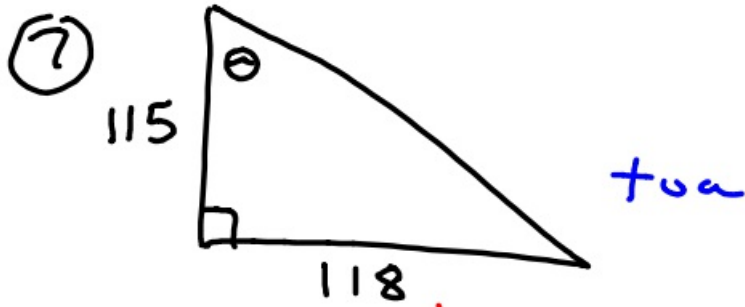
⑥



$$\sin^{-1} \cdot \sin \theta = \frac{\sin^{-1} 9}{11}$$

$$\theta \approx 54.9^\circ$$

SOH
CAH
TOA



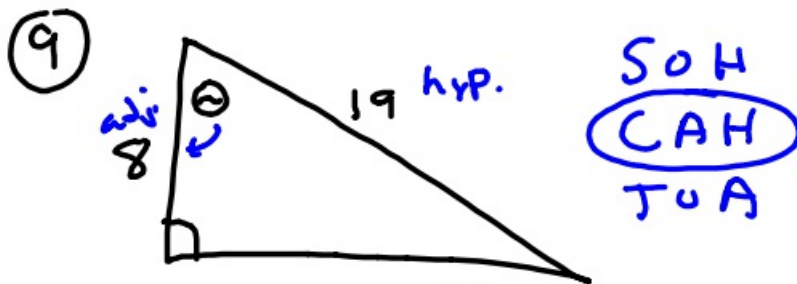
$$\tan^{-1} \tan \theta = \tan^{-1} \frac{118}{115}$$

$$\theta \approx 45.7^\circ$$



Why does it say ERROR?

Hypotenuse must be largest side

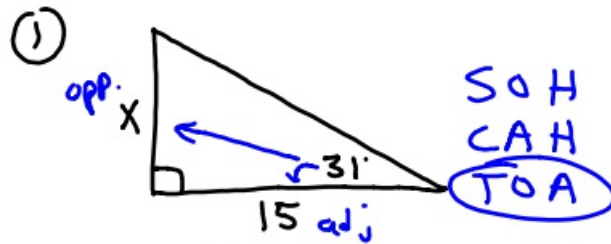


$$\cancel{\cos^{-1} \cos} \theta = \cos^{-1} \frac{8}{19}$$

$$\theta \approx 65.1^\circ$$

12-14-18 6th Geo

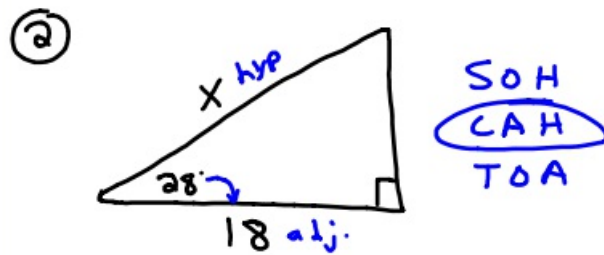
Refresher



$$\frac{\tan 31^\circ}{1} = \frac{x}{15}$$

$$x = 15 \cdot \tan 31^\circ$$

$$x \approx 9$$

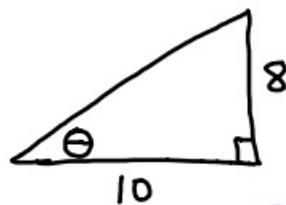


$$\frac{\cos 28^\circ}{1} = \frac{18}{x}$$

$$\frac{x \cdot \cancel{\cos 28^\circ}}{\cancel{\cos 28^\circ}} = \frac{18}{\cos 28^\circ}$$

$$x \approx 20.4$$

③ THINK

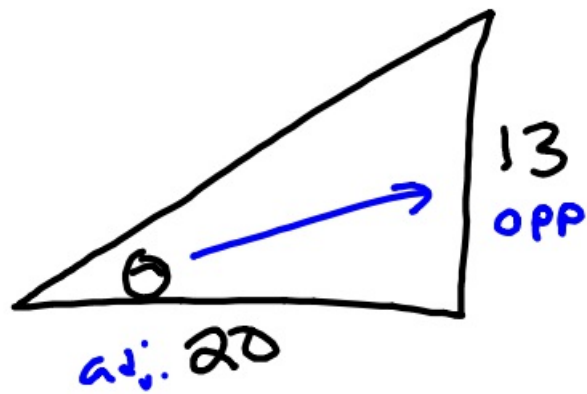


$$\tan \theta = \frac{8}{10}$$

$$\tan \theta = .8$$

$$\theta \approx 38.7^\circ$$

(4)

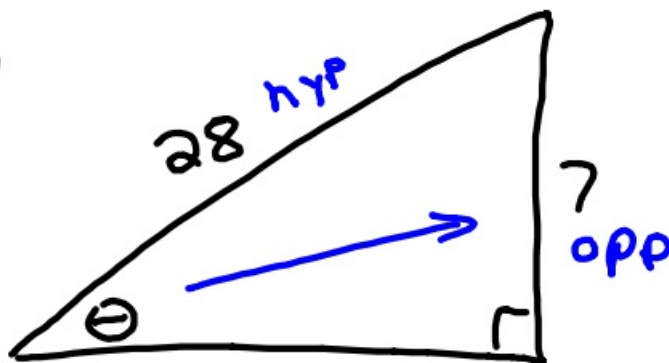


$$\tan \theta = \frac{13}{20}$$

$$\tan \theta = .65$$

$$\theta \approx 33^\circ$$

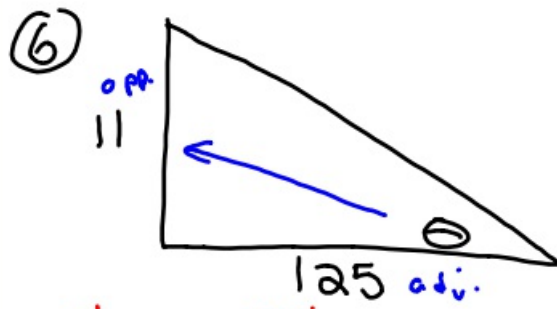
(5)



SOH
CAH
TOA

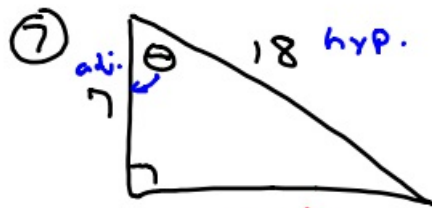
~~$\sin^{-1} \sin \theta = \sin^{-1} \frac{7}{28}$~~

$$\theta \approx 14.5^\circ$$



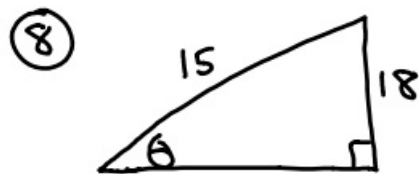
$$\tan^{-1} \tan \theta = \frac{\tan^{-1} 11}{125}$$

$$\theta = 5.0^\circ$$

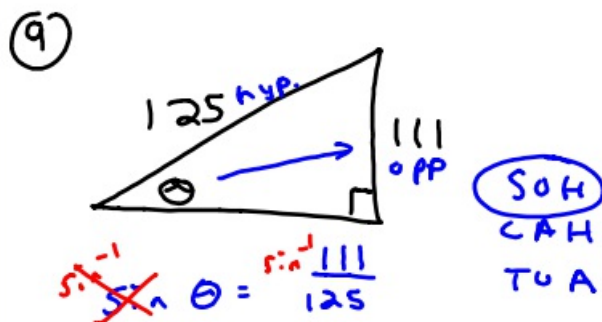


$$\cos^{-1} \cos \theta = \frac{\cos^{-1} 7}{18}$$

$$\theta \approx 67.1^\circ$$



Why does it say ERROR?
Hypotenuse must be largest side.



~~$$\sin^{-1} \sin \theta = \frac{\sin^{-1} 111}{125}$$~~

$$\sin^{-1} \frac{111}{125}$$

SOH
CAH
TUA

$$\theta \approx 62.6^\circ$$