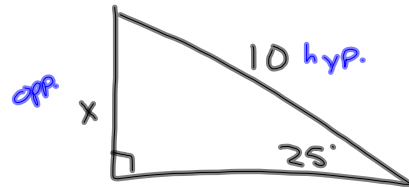
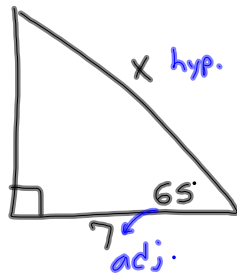


2-6-14
5th Geo

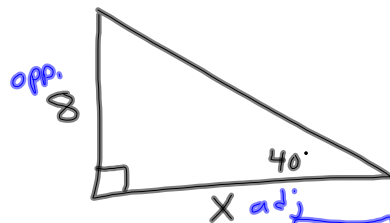
SOH CAH TOA



$$\frac{\sin 25}{1} = \frac{x}{10}$$
$$x = 10 \cdot \sin(25)$$
$$x \approx 4.23$$



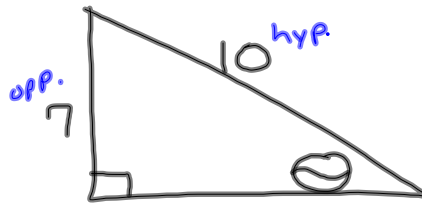
$$\frac{\cos 65}{1} = \frac{7}{x}$$
$$\frac{x \cdot \cos 65}{\cos 65} = \frac{7}{\cos 65}$$
$$x \approx 16.56$$



SOH CAH **TOA**

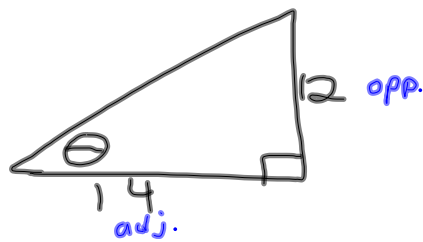
$$\frac{\tan 40}{1} = \frac{8}{x}$$
$$\frac{x \cdot \tan 40}{\cancel{\tan 40}} = \frac{8}{\cancel{\tan 40}}$$
$$y \approx 9.53$$

New



$$\cancel{\sin^{-1} \sin} \theta = \sin^{-1} \frac{7}{10}$$

$$\theta = \sin^{-1}\left(\frac{7}{10}\right)$$



$$\cancel{\tan^{-1} \tan} \theta = \tan^{-1} \frac{12}{14}$$

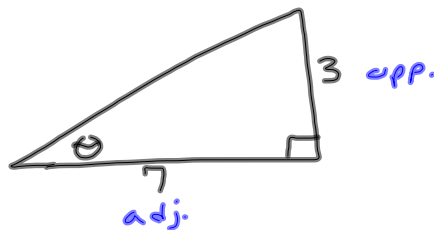
$$\theta = \tan^{-1}\left(\frac{12}{14}\right)$$

$$\theta \approx 40.6^\circ$$



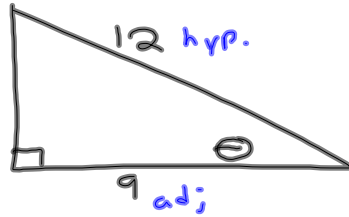
$$\cancel{\cos^{-1} \cos} \theta = \cos^{-1} \frac{7}{8}$$

$$\theta \approx 28.96^\circ$$



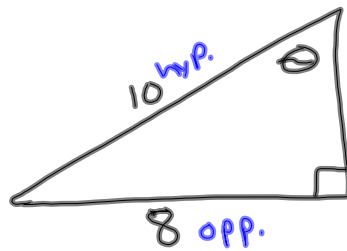
$$\tan^{-1} \tan \theta = \tan^{-1} \frac{3}{7}$$

$$\theta \approx 23.2$$



$$\cos^{-1} \cos \theta = \cos^{-1} \frac{9}{12}$$

$$\theta \approx 41.41^\circ$$

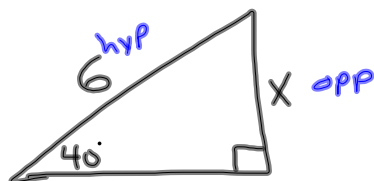


$$\sin^{-1} \sin \theta = \sin^{-1} \frac{8}{10}$$

$$\theta = \sin^{-1} \left(\frac{8}{10} \right)$$

$$\theta \approx 53.13^\circ$$

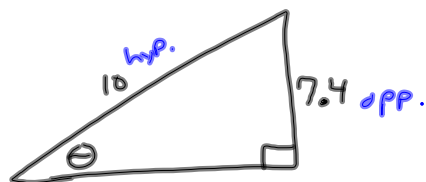
Mix them together



$$\frac{\sin 40^\circ}{1} = \frac{X}{6}$$

$$X = 6 \cdot \sin 40^\circ$$

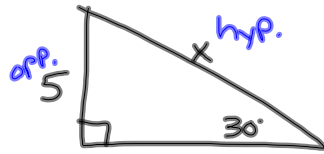
$$X \approx 3.86$$



$$\sin^{-1} \sin \theta = \sin^{-1} \frac{7.4}{10}$$

$$\theta \approx 47.73^\circ$$

2-6-14
6th Geo

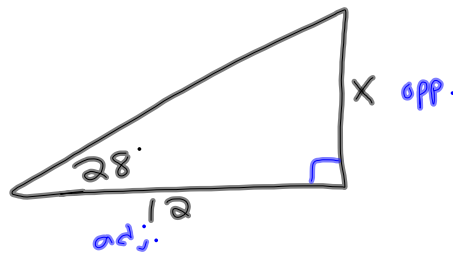


SOH CAH TOA
 $\sin \theta = \frac{\text{opp.}}{\text{hyp}}$ $\cos \theta = \frac{\text{adj.}}{\text{hyp}}$ $\tan \theta = \frac{\text{opp.}}{\text{adj.}}$

$$\frac{\sin 30^\circ}{1} = \frac{5}{x}$$

$$\frac{x \cdot \cancel{\sin 30^\circ}}{\cancel{\sin 30^\circ}} = \frac{5}{\cancel{\sin 30^\circ}}$$

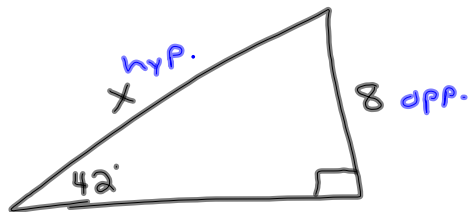
$$x = 10$$



$$\frac{\tan 28^\circ}{1} = \frac{x}{12}$$

$$x = 12 \cdot \tan 28^\circ$$

$$x \approx 6.38$$

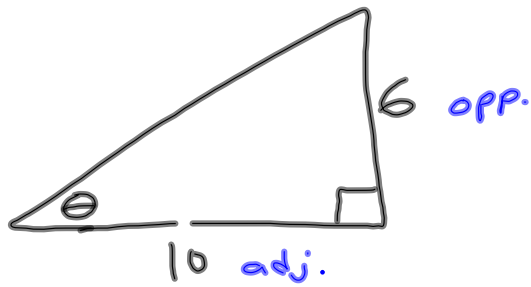


$$\frac{\sin 42^\circ}{1} = \frac{8}{x}$$

$$\frac{x \cdot \cancel{\sin 42^\circ}}{\cancel{\sin 42^\circ}} = \frac{8}{\cancel{\sin 42^\circ}}$$

$$x \approx 11.96$$

New

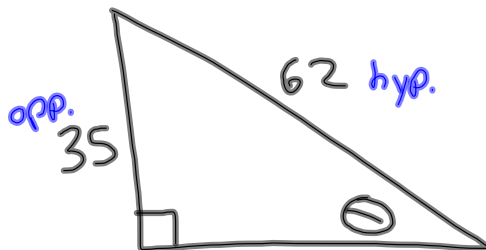


$$\tan \theta = \frac{6}{10}$$

$$\cancel{\tan^{-1}} \tan \theta = \cancel{\tan^{-1}} \frac{6}{10}$$

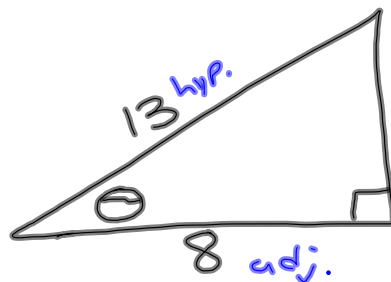
$$\theta = \tan^{-1} .6$$

$$\theta \approx 30.96$$



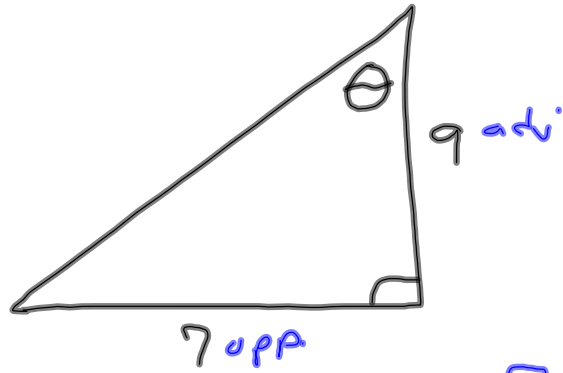
$$\cancel{\sin^{-1}} \sin \theta = \cancel{\sin^{-1}} \frac{35}{62}$$

$$\theta \approx 34.37$$



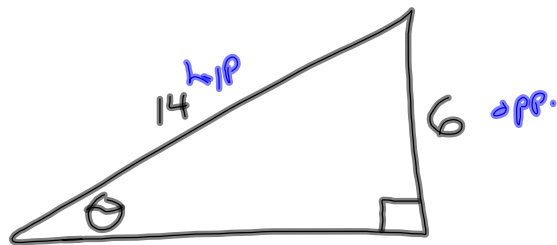
$$\cos^{-1} \cos \theta = \cos^{-1} \frac{8}{13}$$

$$\theta \approx 52.02$$



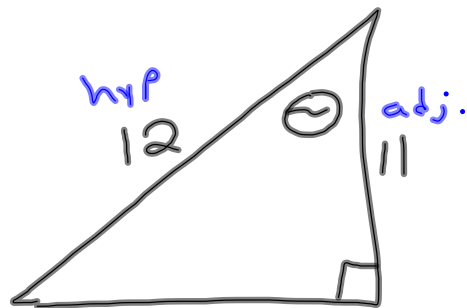
$$\tan^{-1} \tan \theta = \tan^{-1} \frac{7}{9}$$

$$\theta \approx 37.87$$



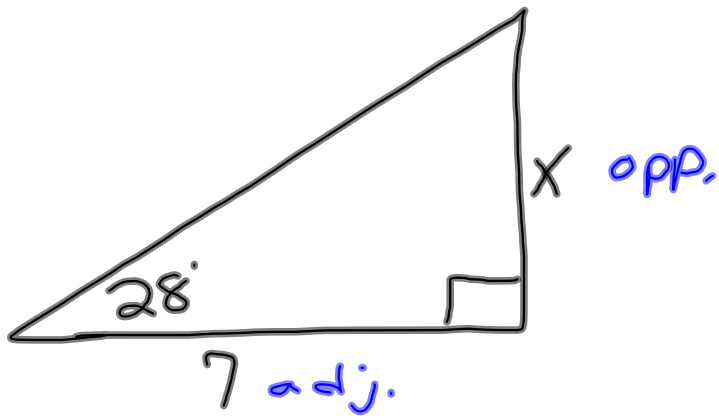
~~$$\sin^{-1} \sin \theta = \sin^{-1} \frac{6}{14}$$~~

$$\theta \approx 25.38$$



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

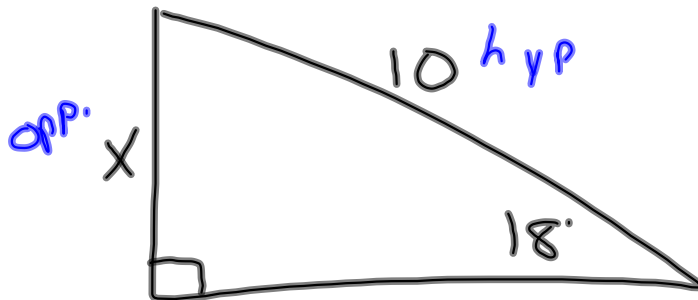
$$\theta \approx \cos^{-1} \frac{11}{12}$$



$$\frac{\tan 28^\circ}{1} = \frac{X}{7}$$

$$X = 7 \cdot \tan 28^\circ$$

$$X \approx 3.72$$



$$\frac{\sin 18^\circ}{1} = \frac{X}{10}$$

$$X = 10 \cdot \sin 18^\circ$$

$$X \approx 3.09$$