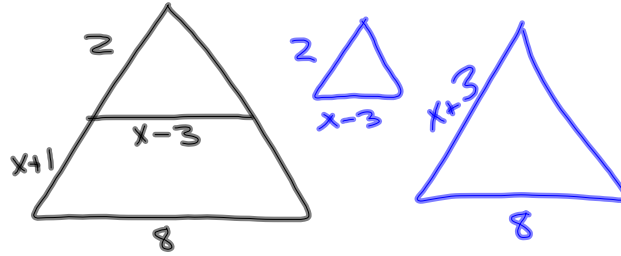


2-4-14

5th Geo

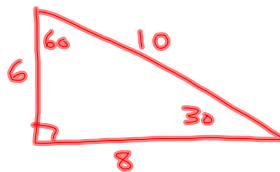
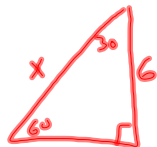
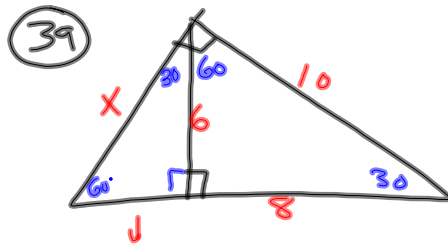
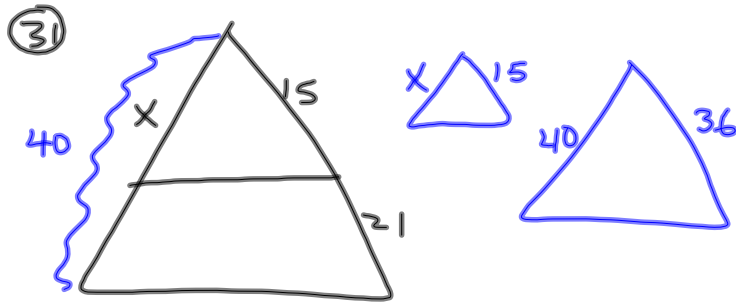
From test



$$\frac{2}{x+3} = \frac{x-3}{8}$$

$$\begin{aligned} x^2 - 9 &= 16 \\ +9 &+9 \\ \hline x^2 &= 25 \\ x &= 5 \end{aligned}$$

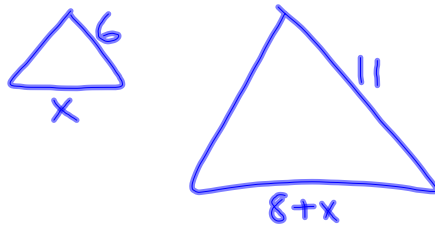
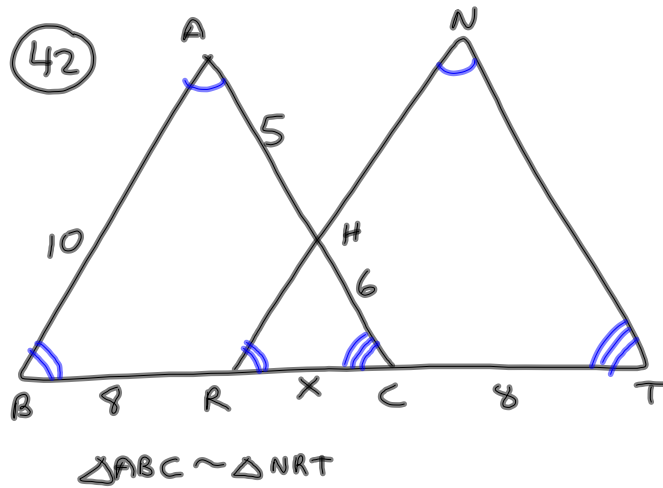
$$\begin{aligned} (x+3)(x-3) \\ x^2 - 3x + 3x - 9 \end{aligned}$$



$$\frac{x}{10} = \frac{6}{8}$$

$$8x = 60$$

$$x = 7\frac{1}{2}$$



$$\frac{x}{x+8} = \frac{6}{11}$$

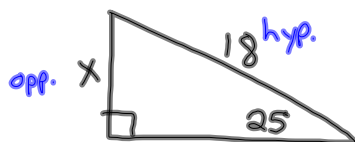
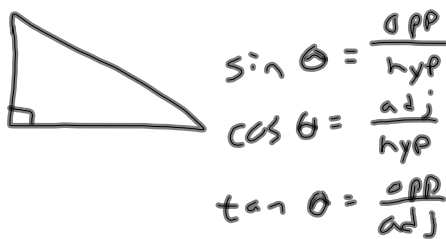
$$11x = 6(x+8)$$

$$11x = 6x + 48$$

$$5x = 48$$

$$x = 9.6$$

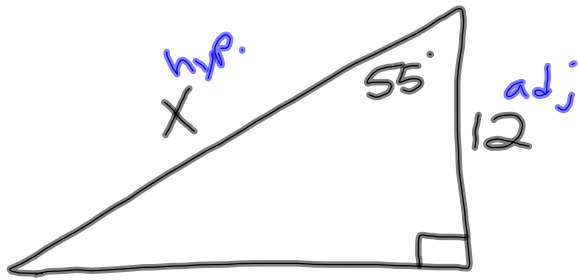
SOH CAH TOA



$$\frac{\sin 25}{1} = \frac{x}{18}$$

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

$$x \approx 7.6$$

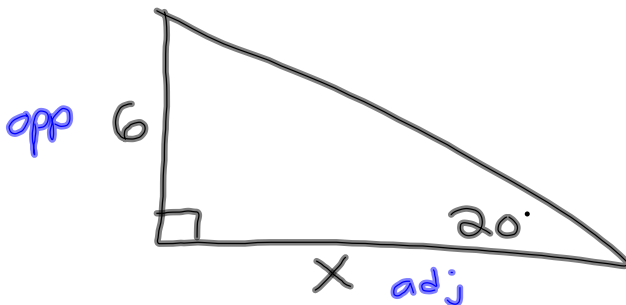


SOH CAH TOA

$$\frac{\cos 55^\circ}{1} = \frac{12}{X}$$

$$\frac{X \cdot \cancel{\cos 55^\circ}}{\cancel{\cos 55^\circ}} = \frac{12}{\cos 55^\circ}$$

$$X \approx 20.9$$



SOH CAH TOA

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

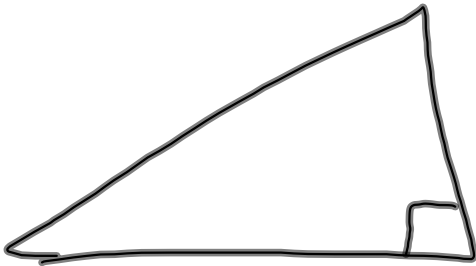
$$\frac{\tan 20^\circ}{1} = \frac{6}{X}$$

$$\frac{X \cdot \cancel{\tan 20^\circ}}{\cancel{\tan 20^\circ}} = \frac{6}{\tan 20^\circ}$$

$$X = 16.5$$

2-4-14
6th Geo

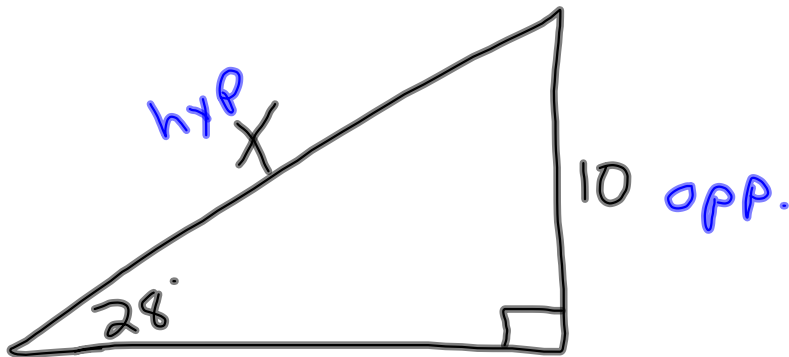
SOH CAH TOA



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

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

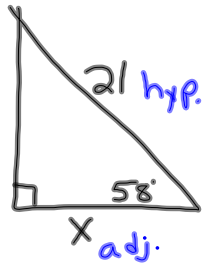
$$\tan \theta = \frac{\text{opp.}}{\text{adj.}}$$



$$\frac{\sin 28^\circ}{1} = \frac{10}{X}$$

$$\frac{X \cdot \cancel{\sin 28^\circ}}{\cancel{\sin 28^\circ}} = \frac{10}{\cancel{\sin 28^\circ}}$$

$$X \approx 21.3$$



SOH **CAH** TOA

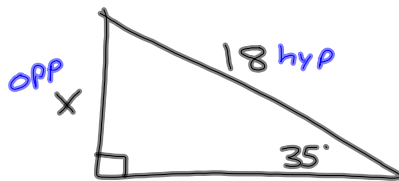
$$\cos \theta = \frac{\text{adj.}}{\text{hyp.}}$$

$$\downarrow$$

$$\frac{\cos 58^\circ}{1} = \frac{x}{21}$$

$$x = 21 \cdot \cos 58^\circ$$

$$x \approx 11.13$$

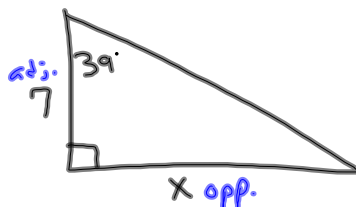


SOH CAH TOA

$$\frac{\sin 35^\circ}{1} = \frac{x}{18}$$

$$x = 18 \cdot \sin 35^\circ$$

$$x \approx 10.32$$

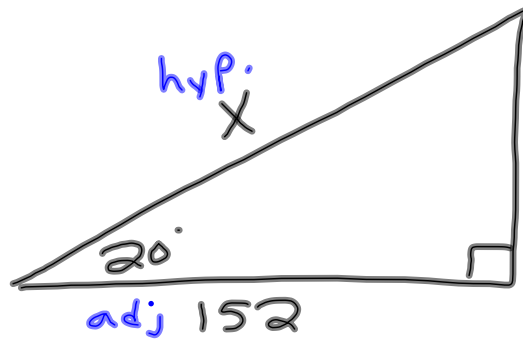


$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\frac{\tan 39^\circ}{1} = \frac{x}{7}$$

$$x = 7 \cdot \tan 39^\circ$$

$$x \approx 5.67$$

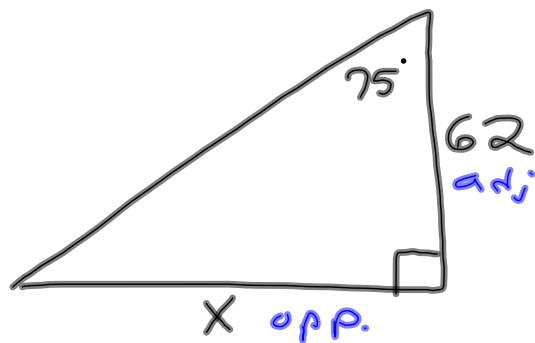


SOH CAH

$$\frac{\cos 20^\circ}{1} = \frac{152}{X}$$

$$\frac{X \cdot \cancel{\cos 20^\circ}}{\cancel{\cos 20^\circ}} = \frac{152}{\cos 20^\circ}$$

$$X \approx 161.76$$



$$\frac{\tan 75^\circ}{1} = \frac{X}{62}$$

$$X = 62 \cdot \tan 75^\circ$$

$$X \approx 231.39$$