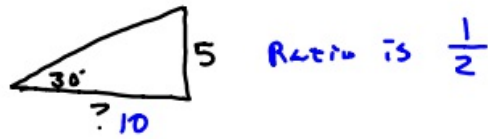
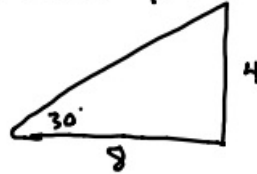
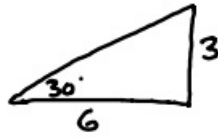


12-6-18 5<sup>th</sup> Geo

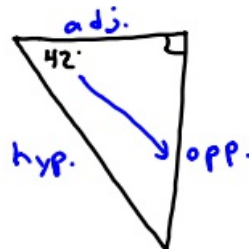
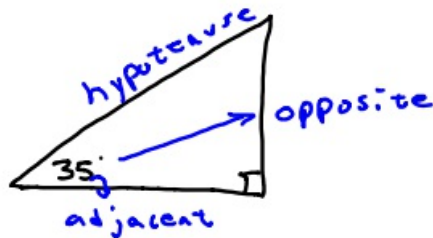
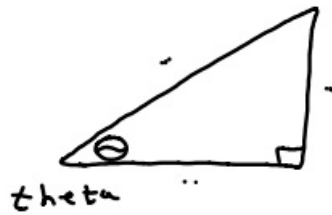
①  $5.\overline{66} \times 5.\overline{6}$

②  $3.66666667$   
 $3.6 \times 3.7 \quad 3.\overline{6}$

Not true, but we will pretend.



Every  $\Delta$  ( $1^\circ, 2^\circ, 3^\circ$ , etc.)  
had a ratio.



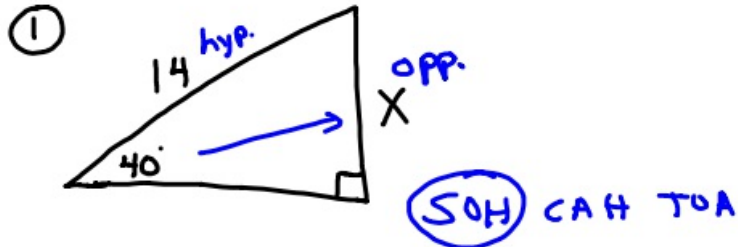


SOH CAH TOA



$$\sin \theta = \frac{\text{opp.}}{\text{hyp.}} \quad \cos \theta = \frac{\text{adj.}}{\text{hyp.}} \quad \tan \theta = \frac{\text{opp.}}{\text{adj.}}$$

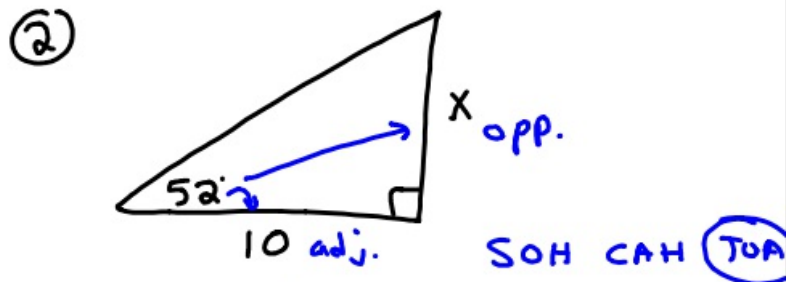
Sine  
Cosine  
Tangent



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

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

$$X \approx 9.0$$

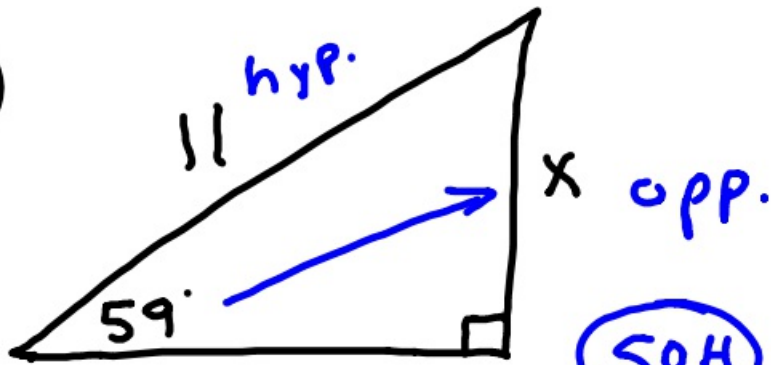


$$\frac{\tan 52^\circ}{1} = \frac{X}{10}$$

$$X = 10 \cdot \tan(52)$$

$$X \approx 12.8$$

③



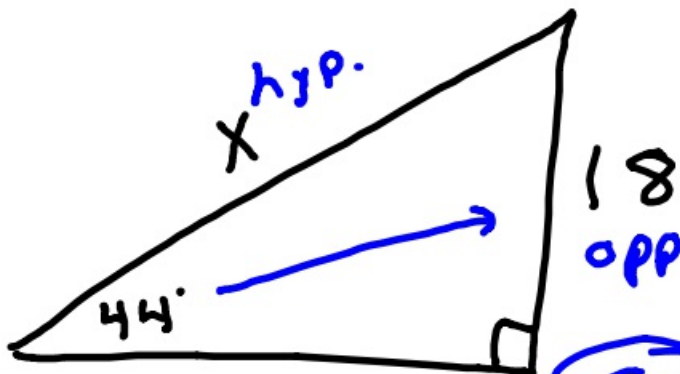
SOH CAH TOA

$$\frac{\sin 59^\circ}{1} = \frac{x}{11}$$

$$x = 11 \cdot \sin 59^\circ$$

$$x \approx 9.4$$

④



SOH CAH TOA

$$\frac{\sin 44^\circ}{1} = \frac{18}{x}$$

$$\frac{x \cdot \cancel{\sin 44^\circ}}{\cancel{\sin 44^\circ}} = \frac{18}{\cancel{\sin 44^\circ}}$$

$$x \approx 25.9$$

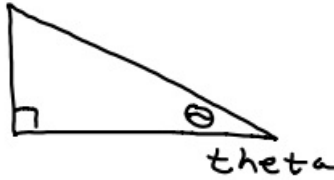
12-6-18 6<sup>th</sup> Geo

Test

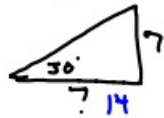
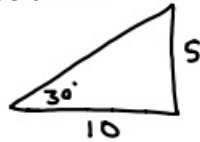
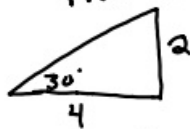
①  $3.\overline{66} \times 3.\overline{6}$

②  $5.\overline{6} \quad 5.6$   
 $\downarrow$   
 $5.7$

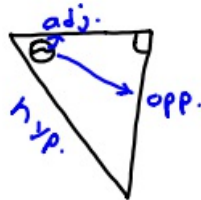
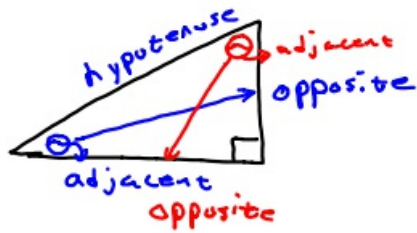
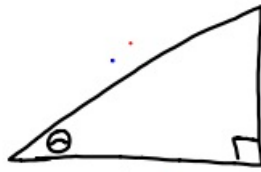
$\overline{.6} = \frac{2}{3} \quad .6 = \frac{3}{5}$

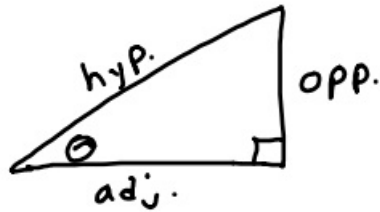


Pretend, but not true.



Ratio  $\frac{1}{2} (.5)$

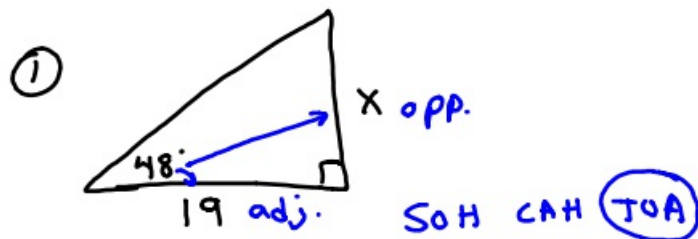




SOH CAH TOA

$$\sin \theta = \frac{\text{opp.}}{\text{hyp.}} \quad \cos \theta = \frac{\text{adj.}}{\text{hyp.}} \quad \tan \theta = \frac{\text{opp.}}{\text{adj.}}$$

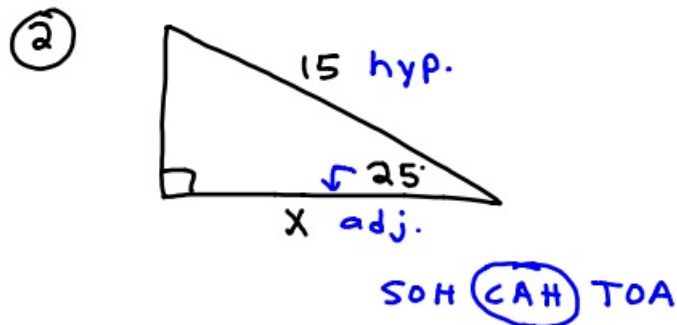
sine  
cosine  
tangent



$$\frac{\tan 48^\circ}{1} = \frac{X}{19}$$

$$X = 19 \cdot \tan 48^\circ$$

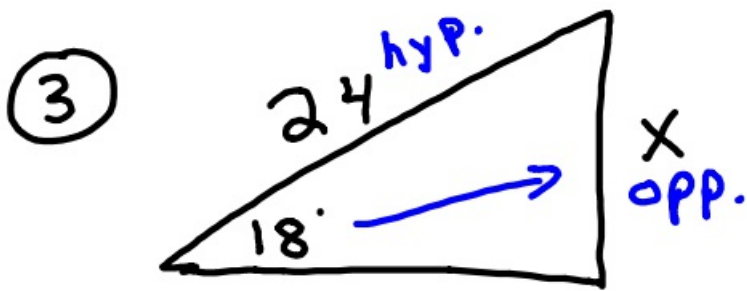
$$X \approx 21.1$$



$$\frac{\cos 25^\circ}{1} = \frac{X}{15}$$

$$X = 15 \cdot \cos 25^\circ$$

$$X \approx 13.6$$

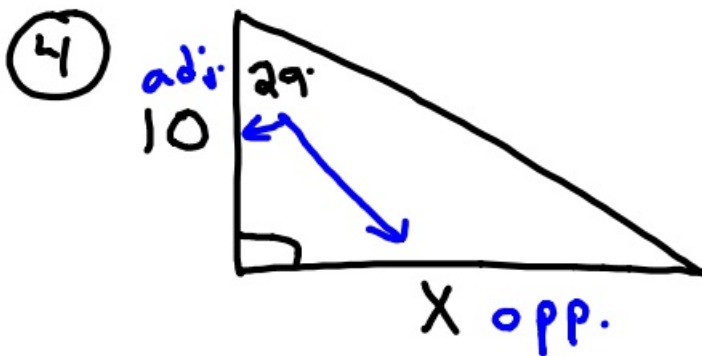


SOH CAH TOA

$$\frac{\sin 18^\circ}{1} = \frac{x}{24}$$

$$x = 24 \cdot \sin 18^\circ$$

$$x \approx 7.4$$



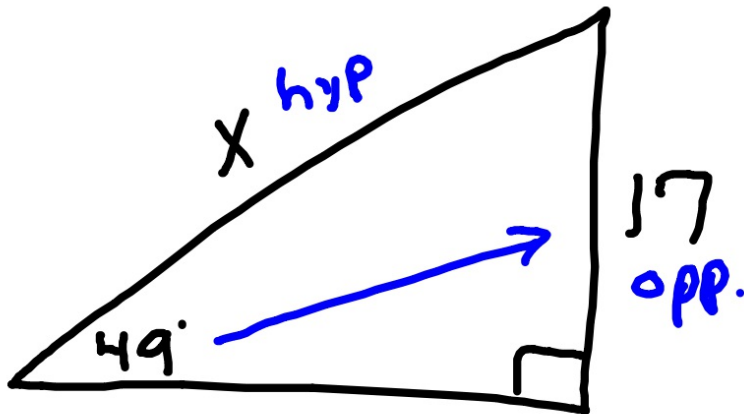
SOH CAH TOA

$$\frac{\tan 29^\circ}{1} = \frac{x}{10}$$

$$x = 10 \cdot \tan 29^\circ$$

$$x \approx 5.5$$

5



SOH CAH TOA

$$\frac{\sin 49^\circ}{1} = \frac{17}{X}$$

$$\frac{X \cdot \cancel{\sin 49^\circ} = 17}{\cancel{\sin 49^\circ} \quad \sin 49^\circ}$$

$$X \approx 22.5$$

