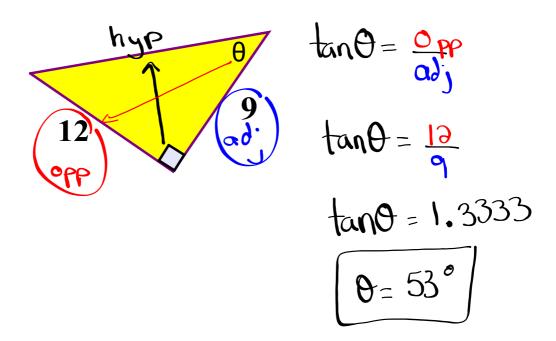
## Try these:

Find the value of theta.

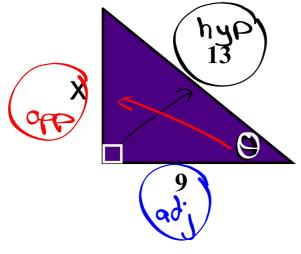
a) 
$$Tan\sigma = 2.3559$$
 b)  $Cos\sigma = 0.8746$   
 $O = tan^{-1}(0.3359)$   $O = cos^{-1}(0.8746)$   
 $\sigma = 67^{\circ}$   $\sigma = 29^{\circ}$ 



## 1. Find the value of theta.



- 2. a) Using the proper trig ratio, find theta.
  - b) Find the missing side x.



a) 
$$\cos \theta = \frac{a}{h}$$

$$\cos \theta = \frac{9}{13}$$

$$\cos 0 = 0.6933$$

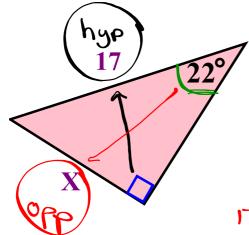
$$a_{3} + p_{9} = c_{9}$$

$$(x)_3 + (4)_9 = (13)_9$$

$$x^{3} + 81 = 169$$

$$X = 9.3808$$

3. How do we find the missing side?



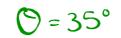
$$\sin \theta = \underline{0}$$

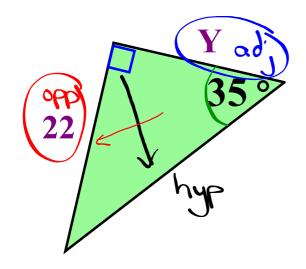
$$\sin \theta = \frac{0}{h}$$

$$\sin \theta = \frac{x}{17}$$

17. 
$$0.3746 = \frac{x}{x}$$

**4.** Find the missing side y  $\bigcirc = 35^{\circ}$ 





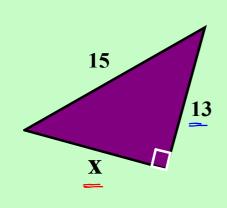
$$tan0=0$$

$$tan35°=0$$

$$y$$

$$0.7009y = 30$$

## 5. Find the missing side x

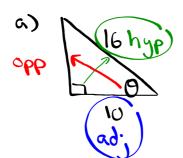


$$\alpha_{3} + \rho_{3} = c_{3}$$

## Homework

$$Sin\Theta = \frac{0}{h}$$

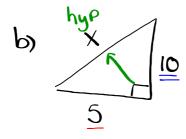
$$\sin \theta = \frac{0}{h}$$
  $\cos \theta = \frac{a}{h}$   $\tan \theta = \frac{0}{a}$ 



$$\cos\theta = \underline{a}$$

$$\cos \theta = \frac{10}{16}$$

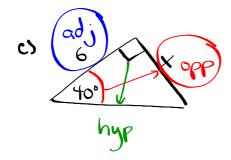
$$650 = 0.635$$



$$a^{3} + b^{3} = c^{3}$$

$$99 + 100 = X_9$$

$$192 = X_g$$



$$tan0 = 0$$

$$tan 40^\circ = \frac{x}{6}$$

$$6.0.8391 = \frac{\times}{6}.6$$

$$5.0346 = \times$$

