Try these:

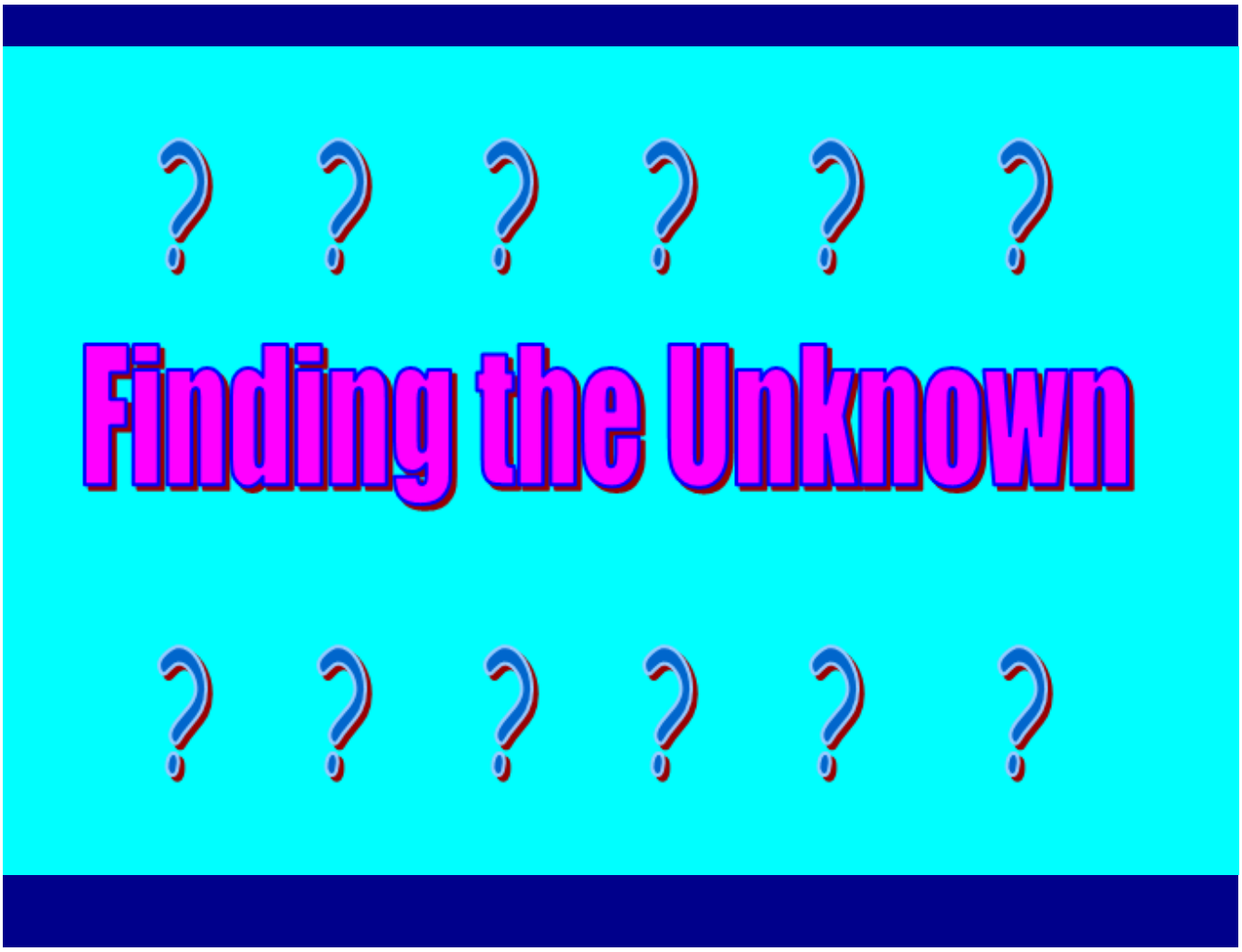
Find the value of theta.

a) $Tan\sigma = 2.3559$

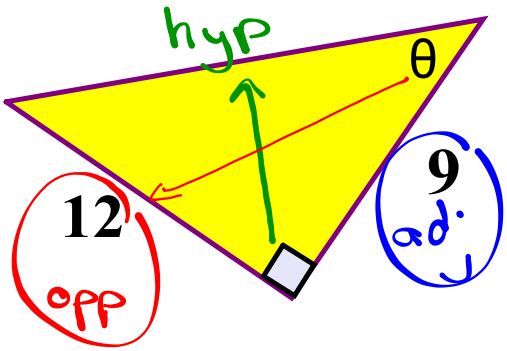
$\sigma = 67^\circ$

b) $Cos\sigma = 0.8746$

$\sigma = 29^\circ$


Finding the Unknown

1. Find the value of theta.



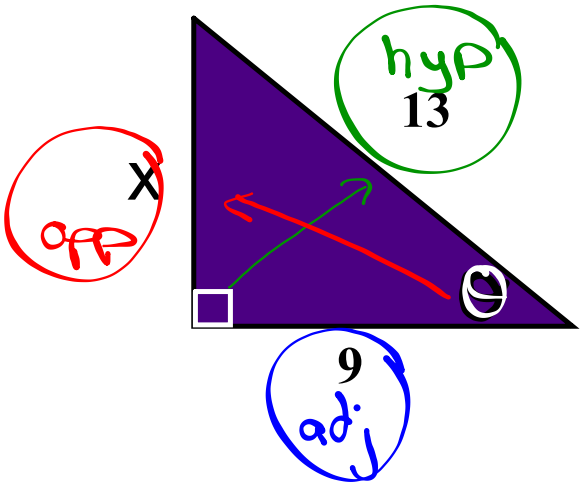
$\tan\theta = \frac{opp}{adj}$

$\tan\theta = \frac{12}{9}$

$\tan\theta = 1.3333$

$\theta = 53^\circ$

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



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

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

$\cos\theta = 0.6923$

$\theta = 46°$

b) Find x:

$a^2 + b^2 = c^2$

$(x)^2 + (9)^2 = (13)^2$

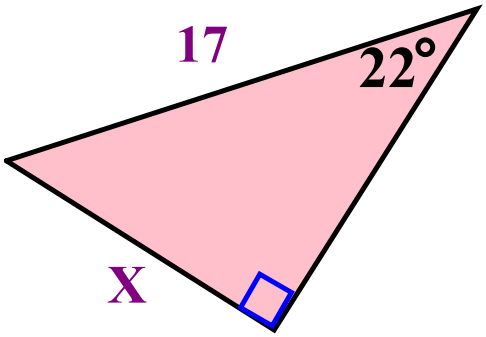
$x^2 + 81 = 169$ (-81 -81)

$x^2 = 88$

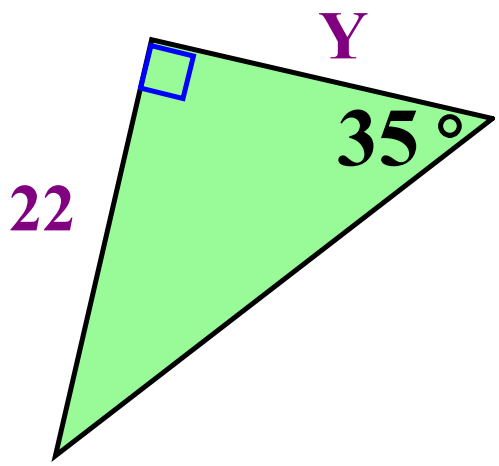
$x = 9.3808$

$\therefore$

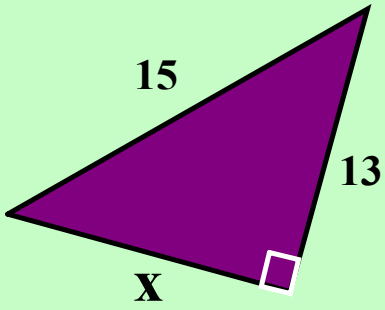
3. How do we find the missing side ?



4. Find the missing side y



5. Find the missing side x



Homework