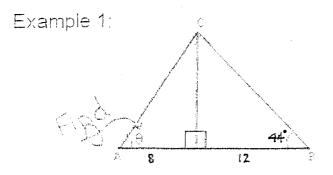
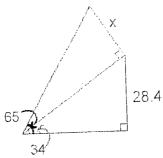
# More Solving Right Triangles: Day 2



## Example 2:



### Example 3:

"Fantastic Frank" is lifeguarding at the local beach. From the high lifeguard chair on the edge of the water, he spots a shark at an angle of depression of 25°......or at least it looks like a shark ???

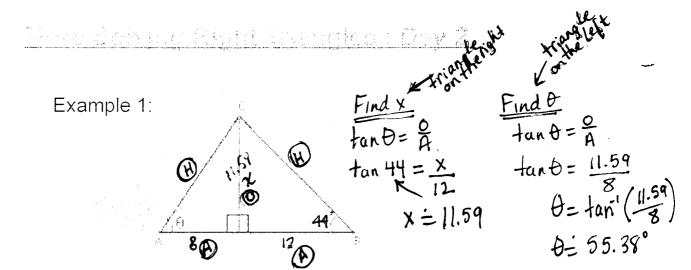
If the lifeguard chair is 5 metres high, how far out is the potentially dangerous and life-threatening fish?

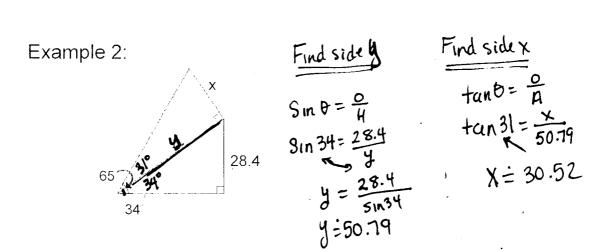




#### Example 4:

Solve  $\triangle$ ABC, given that <C=90°, <A=56.3° and a = 23.7 cm.





## Example 3:

"Fantastic Frank" is lifeguarding at the local beach. From the high lifeguard chair 25 on the edge of the water, he spots a shark at an angle of depression of 25°.....or at least it looks like a shark ???

If the lifeguard chair is 5 metres high, how far out is the potentially dangerous and life-threatening fish?

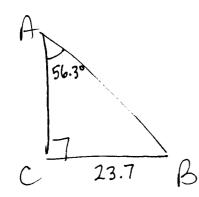
e-threatening fish?

 $\tan \theta = \frac{Q}{A}$   $\tan 65 = \frac{X}{5}$  X = 10.72

Angle of Elevation

Angle of Depression

# Example 4



$$\angle B = 180 - 40 - 56.3$$
  
=  $33.7^{\circ}$ 

Sin 
$$\theta = \frac{opp}{hyp}$$
  
Sin  $56.3 = \frac{23.7}{e}$ 

$$+an \theta = \frac{opp}{adj}$$

$$tan 56.3 = \frac{23.7}{b}$$