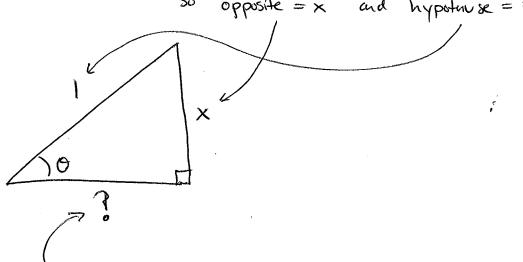
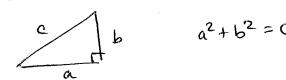
(1) a) 
$$x = \sin \theta = \frac{\text{opposite}}{\text{hypothouse}}$$



this leg can be found using the Pythagaran Thun:



Solution to (a) 
$$\sqrt{1-x^2}$$

Now, using this triangle

(6) 
$$Sin \Theta = \frac{Opp}{hyp} = \frac{x}{1} = x$$

(8) 
$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{\sqrt{1-x^2}}{1} = \sqrt{1-x^2}$$

(d) 
$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} = \frac{x}{\sqrt{1-x^2}}$$