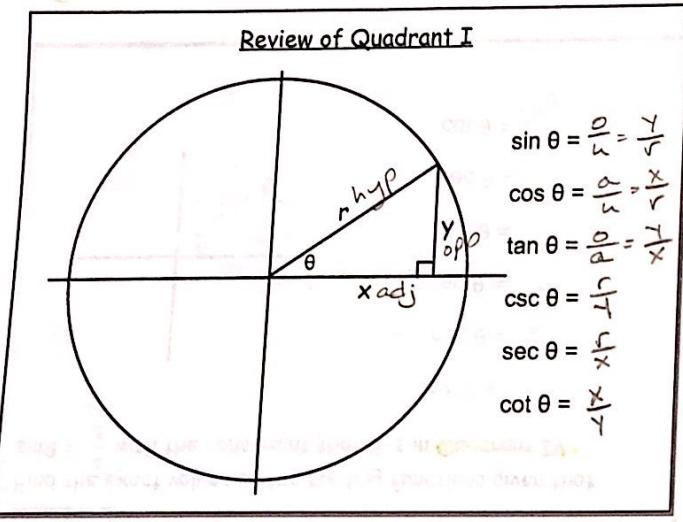
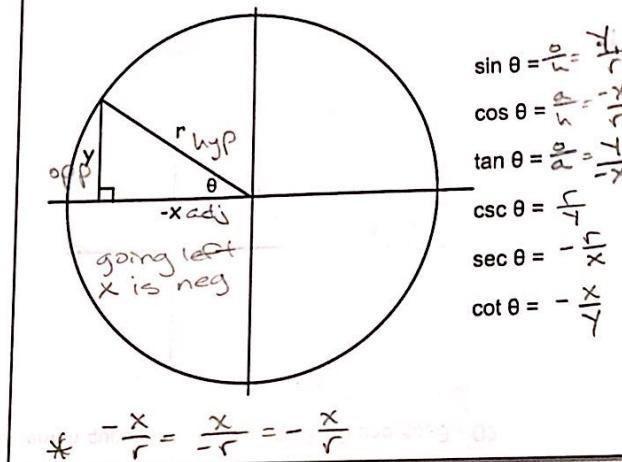


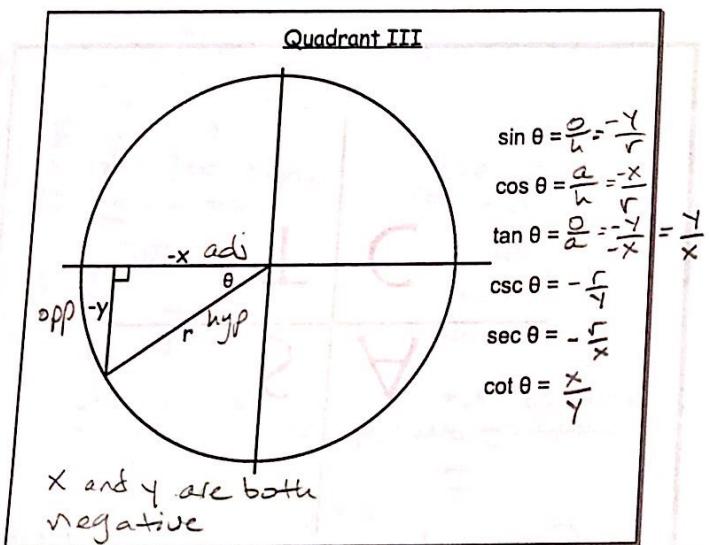
## Sig Ratios Outside Quadrant I



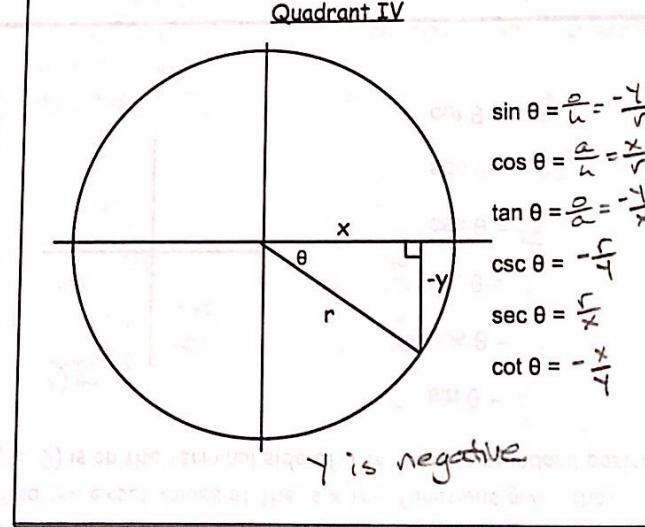
## Quadrant II



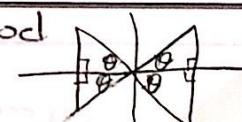
## Quadrant III



## Quadrant IV

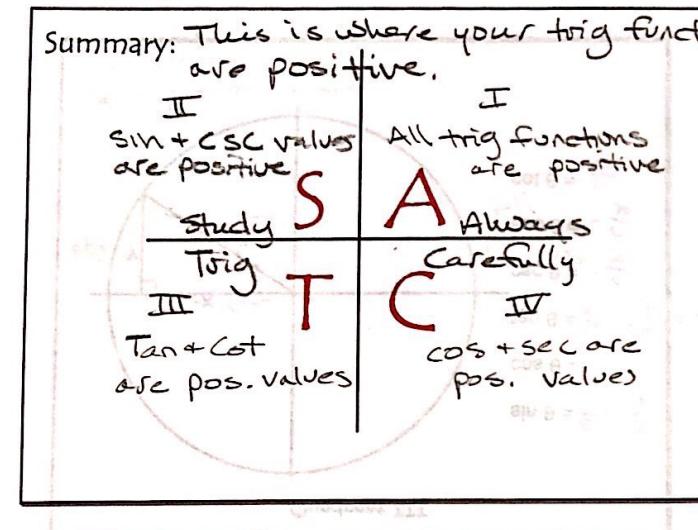


Bow Tie Method



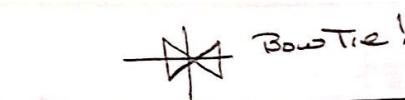
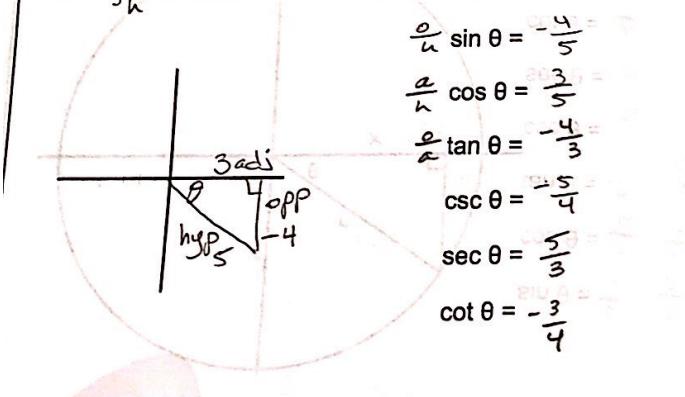
### Ratios outside Quadrant I

**Summary:** This is where your trig functions are positive.



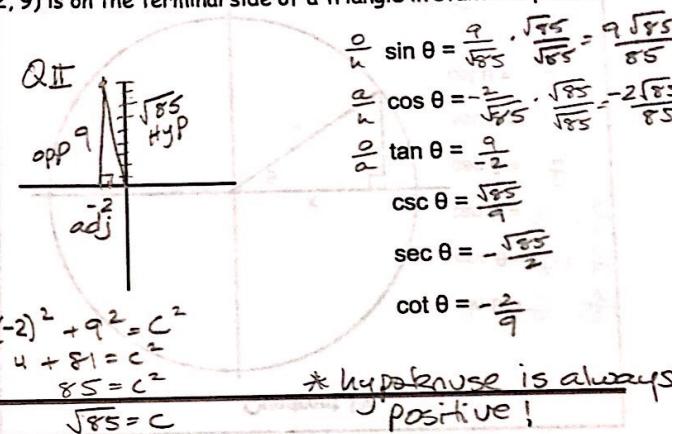
### Example 2:

Find the exact values of the six trig functions given that  $\sin \theta = -\frac{4}{5}$  with the constraint that  $\theta$  is in Quadrant IV.



### Example 1:

Find the exact values of the six trig functions given that  $(-2, 9)$  is on the terminal side of a triangle in standard position.



### Example 3:

In which quadrant lies  $\theta$  if  $\sin \theta < 0$  and  $\cos \theta > 0$ ?   
 neg # pos # constraint

