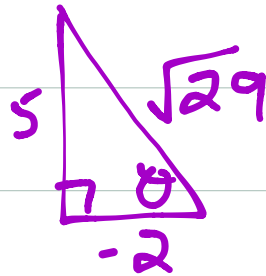
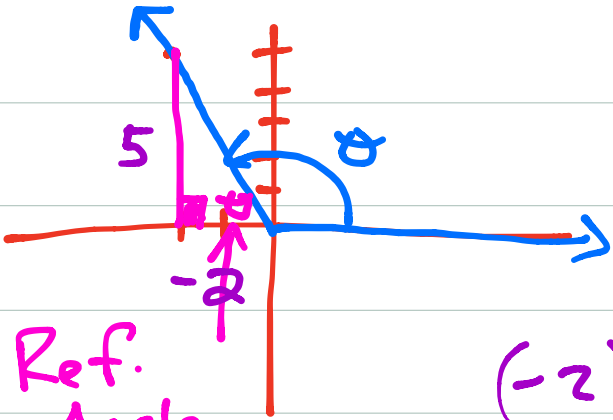


7.4 NOTES -- DAY 2

Find the exact value of the 6 trig. functions of a positive angle θ if $(-2, 5)$ is a point on the terminal side of the angle.



Ref.
Angle

$$(-2)^2 + (5)^2 = x^2$$
$$4 + 25 = x^2$$

$$29 = x^2$$
$$\sqrt{29} = x$$

$$\sin \theta = \frac{5}{\sqrt{29}} = \frac{5\sqrt{29}}{29}$$

$$\cos \theta = \frac{-2}{\sqrt{29}} = \frac{-2\sqrt{29}}{29}$$

$$\tan \theta = \frac{-5}{2}$$

$$\csc \theta = \frac{\sqrt{29}}{5}$$

$$\sec \theta = \frac{-\sqrt{29}}{2}$$

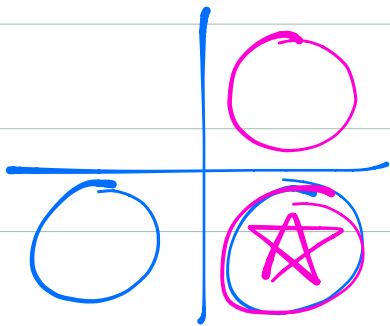
$$\cot \theta = \frac{-2}{5}$$

Name the Quadrant.

$$0 \leq x < 2\pi$$

1) $\sin \theta < 0$, $\cos \theta > 0$

Sin negative cos pos.

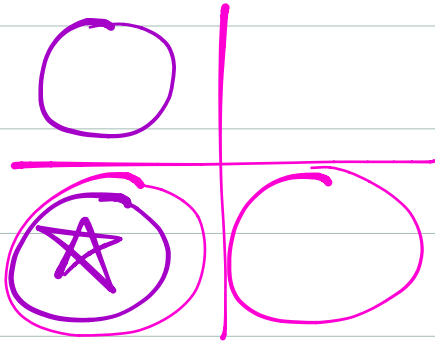


IV

② $\sin \theta < 0, \cos \theta < 0$

neg.

neg.

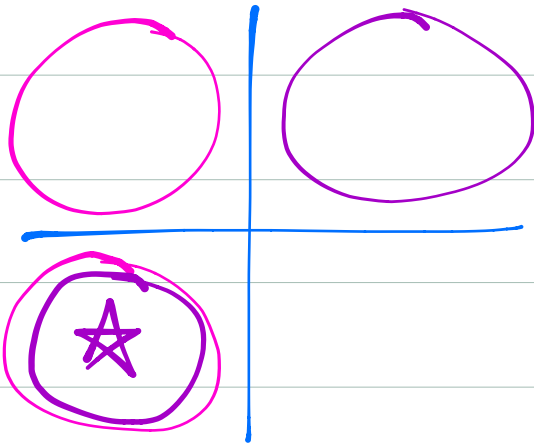


III.

③ $\sec \theta < 0, \tan \theta > 0$

cos neg.

tan pos.



III