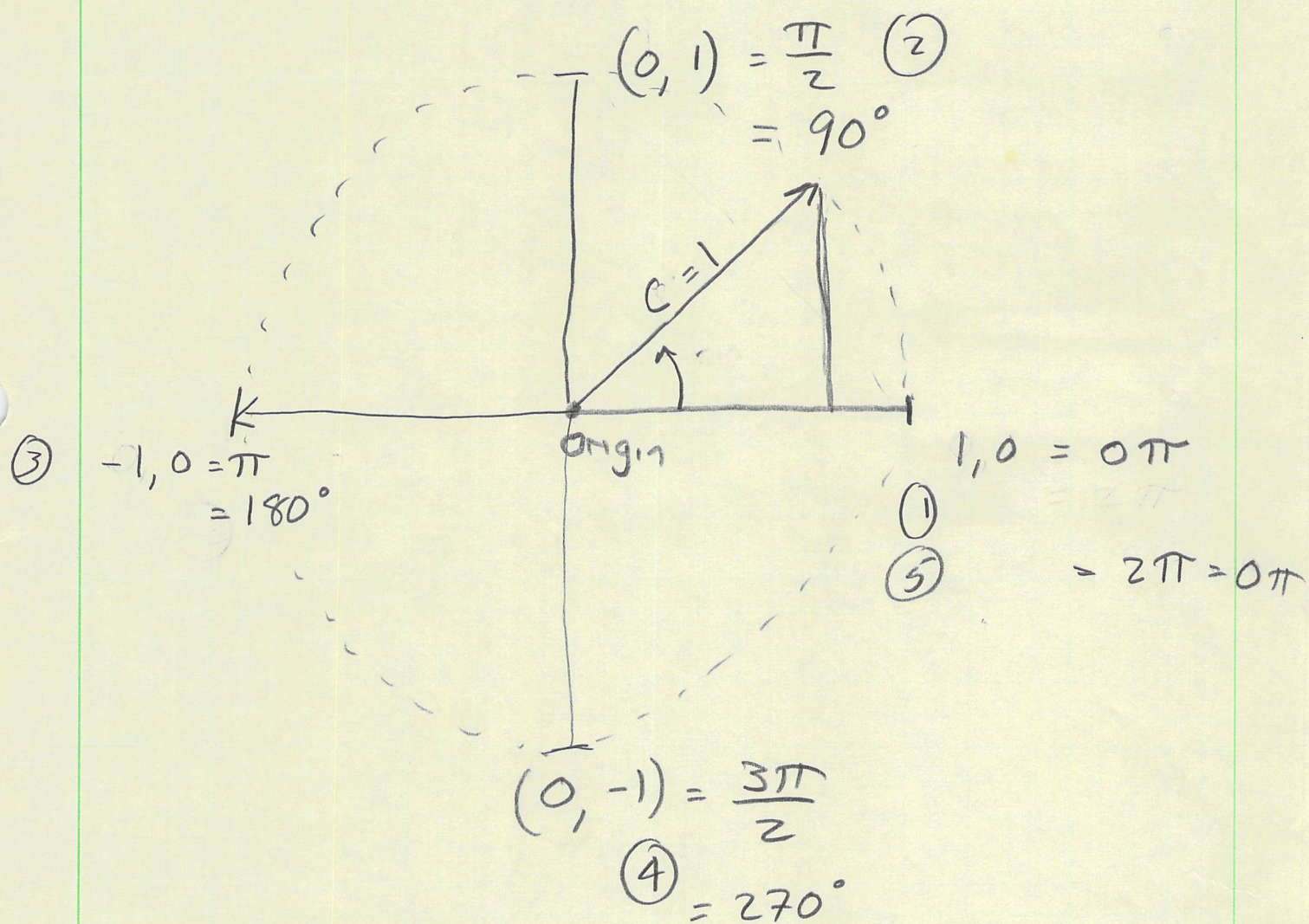


Are Radians Scary? yes if

- 1) you fear new knowledge:
- 2) If you can't draw



$$\vec{C}_x = C \sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\vec{C}_y = C \cos \theta = \frac{\text{adj}}{\text{hyp}}$$

find opp, adj for 1-4



Jan 24, 17

Phy 5224

Radians Review

2/3

Position	y axis opp	x axis adj	$\theta$ , deg	$\theta$ , rad
1	0	1	0	0
2	1	0	90	$\pi/2$
3	0	-1	180	$\pi$
4	-1	0	270	$\frac{3\pi}{2}$
5	0	1	360	$2\pi, \emptyset$
6	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$45^\circ$	$\frac{\pi}{4}$

If legs  
are the  
same

$$C = (A^2 + B^2)^{\frac{1}{2}}$$

$$1 = (2A^2)^{\frac{1}{2}}$$

$$1 = 2A^2$$

$$\frac{1}{2} = A^2$$

$$\sqrt{\frac{1}{2}} = A = B$$



# Circular Motion

Centrifugal  
motion

