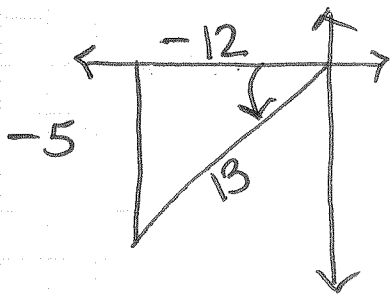


4.3 Day 3

Find Values all 5 remaining trig func.

$\tan \theta = -\frac{5}{12}$ and if $\sin \theta < 0$

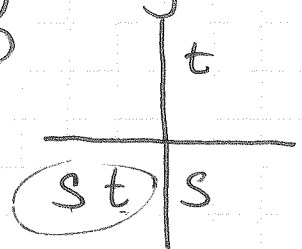


$$\sin \theta = -\frac{5}{13}$$

$$\cos \theta = -\frac{12}{13}$$

$$\csc \theta = -\frac{13}{5}$$

$$\sec \theta = -\frac{13}{12}$$



$$\cot \theta = \frac{12}{5}$$

Sin, cos are circular functions

wrapping the x-axis around the circle.

$(\theta, \cos \theta)$ or $(\theta, \sin \theta)$

Periodic function

if $y = f(t)$ and there is a number c that

$$f(t+c) = f(t)$$

then $f(t)$ is periodic.

Ex ~~8~~ Find value of

a) $\cos \frac{11\pi}{4} = -\frac{\sqrt{2}}{2}$

b) $\sin(-300^\circ) = -\frac{\sqrt{3}}{2}$

$$\frac{11\pi}{4} - \frac{8\pi}{4} = \frac{3\pi}{4}$$

(2π)

$$-300^\circ + 360^\circ = 60^\circ$$