

6.3 Trigonometric FUNCTIONS

A trig function is... *a function with a trig ratio in it*

$$\text{ex/ } y = 2 \sin(\pi x)$$

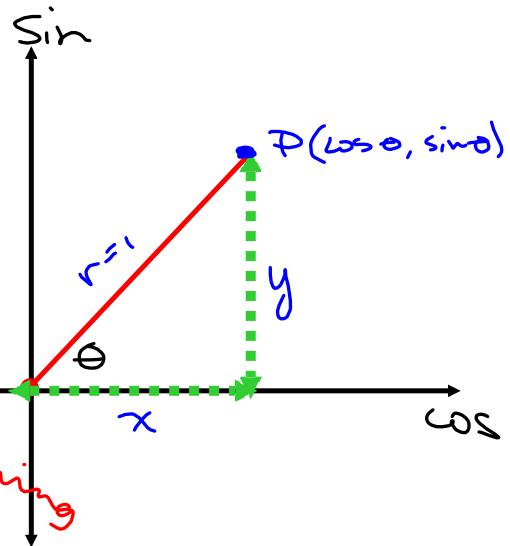
What exactly are we graphing?

$$f(\theta) = \sin \theta$$

$$f(\beta) = \cos \beta$$

$$f(t) = \tan t = \frac{\sin t}{\cos t}$$

} have meaning
on the unit circle



So a graph of

$f(\theta) = \sin \theta$ is... how high P is above the x-axis (+ is ↑, - is ↓)

$f(\theta) = \cos \theta$ is... how far left or right P is from the y-axis (+ is →, - is ←)

$f(\theta) = \tan \theta$ is... the slope of the hypotenuse (radius)

$$f(\theta) = \sin\theta$$

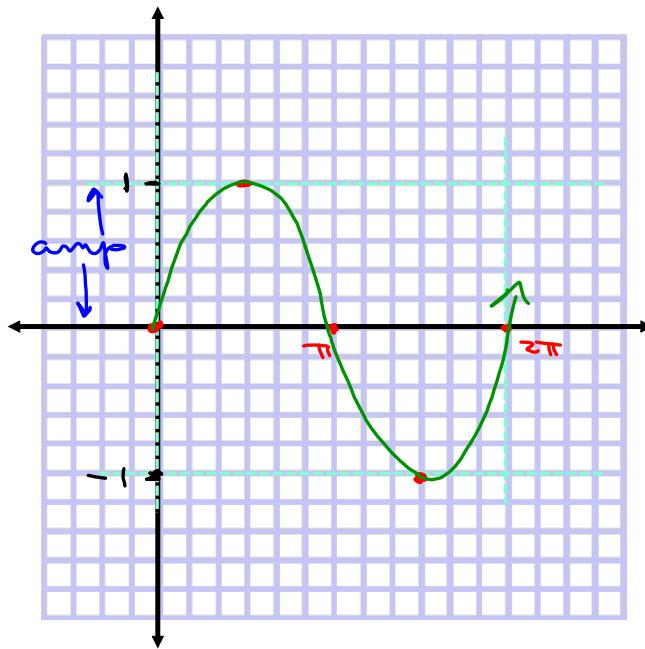
period: 2π

amplitude: 1

axis: $y=0$

phase shift:

none



$$f(\theta) = \cos\theta$$

period: 2π

amplitude: 1

axis: $y = 0$

phase shift:

none

