



Graph  $f(x) = \sin x$  in Y1 on your calculator

\*In "Radian" mode \*In "Degree" mode

Make an inference about radian and degree mode when graphing trigonometric functions.

## The Unit Circle -11,11

## Today's learning objective:

By the end of class, I will be able to transform trigonometric functions.

Today's language objective:

I will use the following terms when graphing my trigonometric functions.

Amplitude; Period; Unit Circle; Radians; Sinusoidal

## Amplitude: is the magnitude of the oscillation of a sinusoidal function

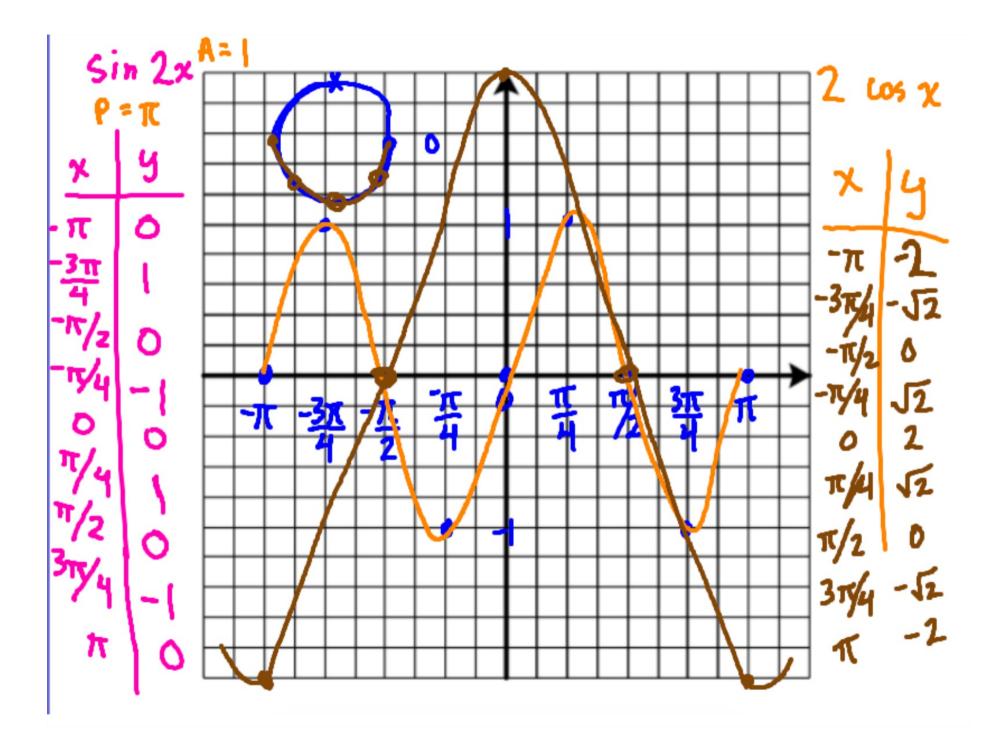
Period: the distance required for a sinusoidal function to complete one cycle

Graph 
$$f(x) = \sin 2x$$

and

Graph  $g(x) = 2 \cos x$ 

on your graphing boards. Find amplitude & period



Graph 
$$f(x) = 7 \cos(\frac{x}{2}) + 1$$
To increments

7 605 = +1 









Extrapolation: dangerous; fitting your model to points that exceeds your data set. Do not do this. Financial analysts attempt to extrapolate and *often* fail.

"Past performance is no indication of future performance." Luck doesn't change probability.

Interpolation --> :)
fitting your model to points within your data set. Feel free to do this.