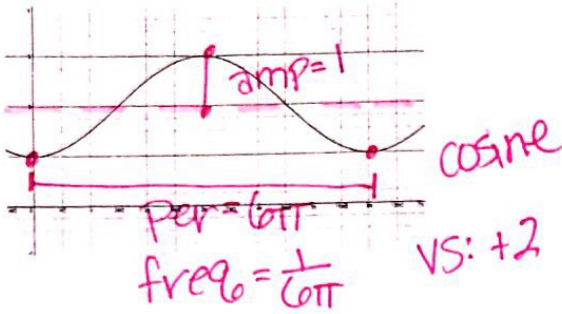
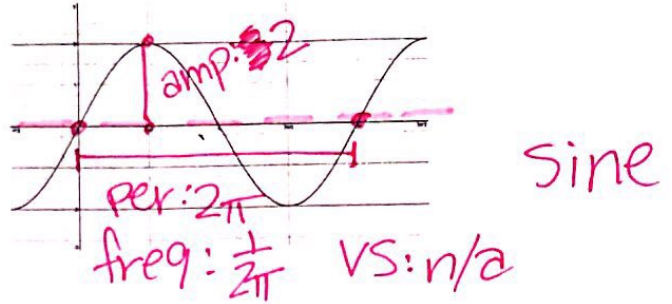


GUIDED NOTES: Graphs of Sine and Cosine

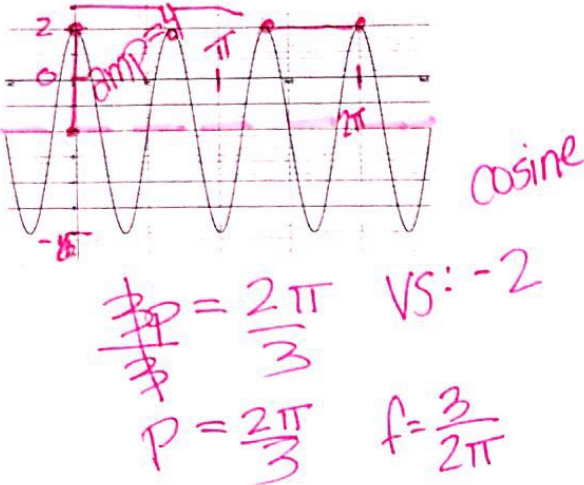
EX1:



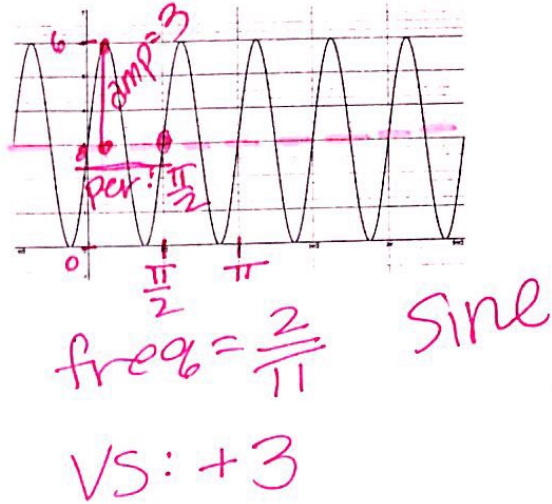
EX3:



EX2:



EX4:



GUIDED NOTES: Amplitude, Period, Frequency, and Vertical Shift

	Definition	How to find on a graph:	How to find in an equation:
amplitude	distance from the midline to a maximum or minimum midline - imaginary line graph oscillates about (bounces up and down around)	find midline count up or count down	amp = a
period	how long (how many radians) until the graph repeats	count how long before the graph repeats	$P = \frac{2\pi}{b}$
frequency	how much of the wave happens in one radian	take the reciprocal (1/2) of period	freq = 1/period
vertical shift	how far above or below the x-axis the graph was moved (where the midline is)	find midline between max & min	+d → up -d → down

There is also a such thing as a phase shift. You will learn about it in your next math class.

Sine:



cos:

