TRIG II PERIODIC FUNCTIONS

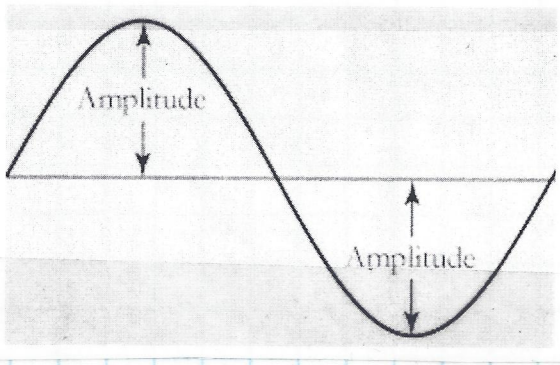
USUALLY OSCILLATING (WAVE LIKE) FUNCTIONS THAT REPEAT A PATTERN of y-VALUES AT REGULAR INTERVALS.

Cycle: ONE COMPLETE REPETITION OF THE PATTERN

PERIOD: HORIZONTAL LENGTH OF ONE COMPLETE CYCLE

AMPLITUDE: ONE HALF OF THE POSITIVE DIFFERENCE BETWEEN THE MAXIMUM AND MINIMUM VALUES OF FUNCTION.

$$\text{AMPLITUDE} = \frac{|\text{MAX} - \text{MIN}|}{2}$$



9.4 Day One Can You

Draw $y = \sin(x)$ and
$y = \cos(x)$

By hand from the
unit circle chart
On a calculator
window $[-90, 360, 90, -4, 4, 1]$

Define
- Periodic Function
- Cycle
- Period
- Amplitude