

INDEX CARD #17 (BACK & FRONT)

GRAPHING TRIG FUNCTIONS

A = AMPLITUDE – HOW HIGH AND LOW THE GRAPH GOES. THIS IS THE
MAX AND MIN OF THE GRAPH HEIGHT = $|Max - Min|$

B = FREQUENCY - THE NUMBER OF TIMES THAT THE GRAPH
COMPLETES 1 CYCLE BETWEEN 0 AND 2π

PERIOD = $\frac{2\pi}{|b|}$ - WHERE THE GRAPH COMPLETES ONE CYCLE

INTERVAL = $\frac{Period}{4}$ - WHERE YOU MAKE THE MARKS ON THE GRAPH

TO GRAPH:

ON THE Y – AXIS: EVERY THREE LINES = 1

ON THE X – AXIS: EVERY FOUR LINES = INTERVAL

SIN X ----- 0, 1, 0, -1, 0

COS X ----- 1, 0, -1, 0, 1

DRAW A SKETCH OF EACH GRAPH:

Y = SIN X

Y = COS X