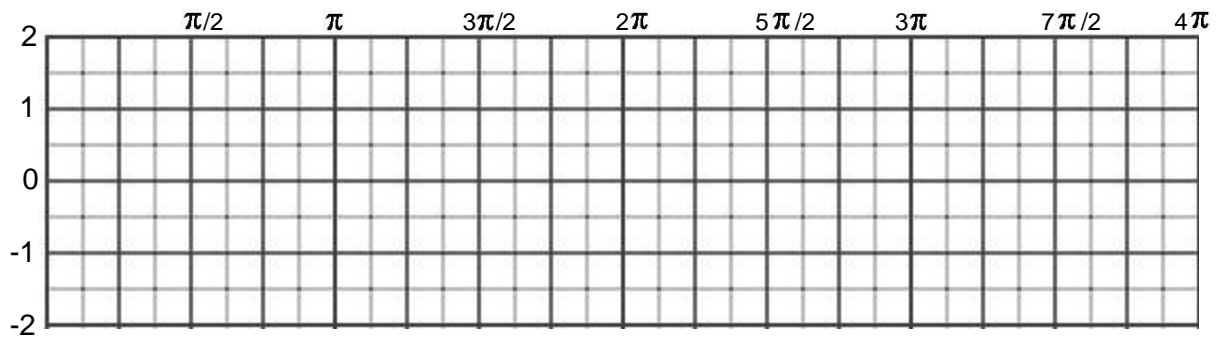# y = A sin B (x + C) + D

Name: _____

Precalculus

Sec 5.4 - Graphs of Sin and Cos
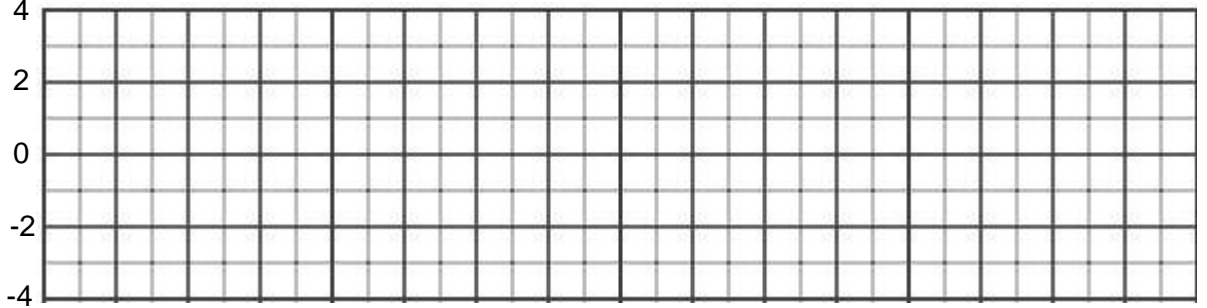
Graph these functions. Label the x and y axis on each graph.

y = f(x) = A sin(x) + D

|A| = magnitude of function
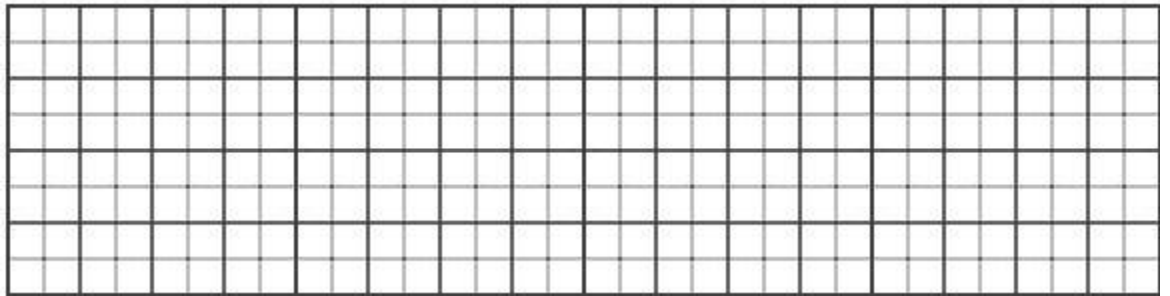
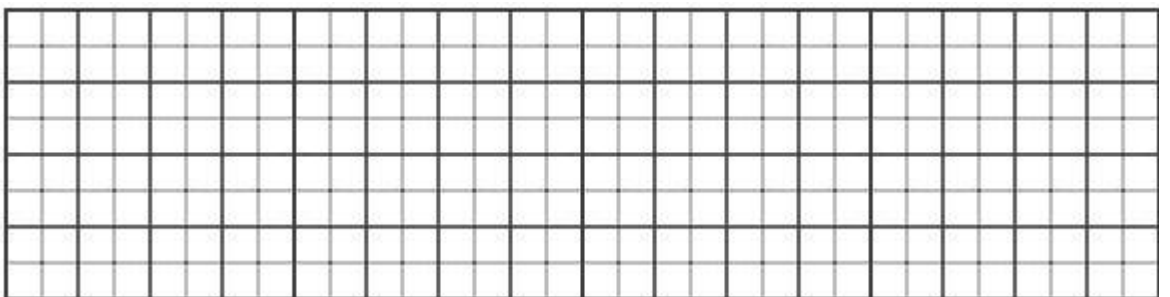D = vertical displacement of function

period = 2π

1) y = sin(x)

π/2   π   3π/2   2π   5π/2   3π   7π/2   4π

2   1   0   -1   -2

2) y = 3sin(x)

4   2   0   -2   -4

3) y = -2sin(x)

4) y = sin(x) + 1

Graph these functions. Label the x and y axis on each graph.

1) y = cos(x)

| | π/2 | π | 3π/2 | 2π | 5π/2 | 3π | 7π/2 | 4π |

2
1
0
-1
-2

2) y = 3cos(x)

3) y = -2cos(x)

4) y = cos(x) + 1