HW 20: Equations of sinusoidal functions to be graphed. Class/section\_\_\_\_Name\_\_\_\_ For each function below, use the "plain paper" graph paper provided. Use the scale: 1 box = 0.5 units. This means each unit is 2 boxes wide or high. Fill in each line; then make a free-standing box for each curve (in the spaces below). Finally, transfer the box to the graph paper. Make the sinusoidal graph go all the way from the left margin to the right margin of the graph paper. Hold the graph paper like:

For each of these curves, use the formulae: $y - C = A \cos(B(x-D))$ or $y - C = A \sin(B(x-D))$							
Use side #1 for these functions:							
	Equation	Center line height	Displacement	Amplitude	В	period	
1	y-5 = ½ cos(x+2)						
2	y-4 = .75 cos( (π/3) (x-4) )						
3	$y-2 = (3/2) \cos (\pi (x+1))$						
4	y+1 = 2 cos((4/3) π (x+0.5))						
5	y+4 = cos(4 π (x + 0.25))						
6	y+5.5 = 0.25 cos (0.4 π (x+3))						
Use side #2 for these functions:							
7	y = 3 cos(x)						
8	y+4 = sin(x+ $\pi/2$ ) [NOTE:sin]						

Free-standing boxes for the above problems:

1	2	3	4
5	6	7	8
5	6	7	8
5	6	7	8
5	6	7	8
5	6	7	8
5	6	7	8
5	6	7	8
5	6	7	8