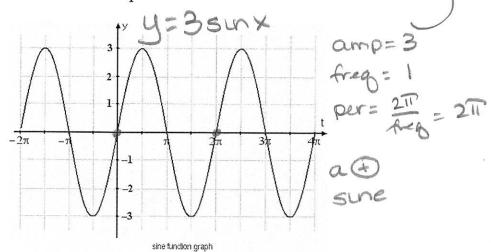
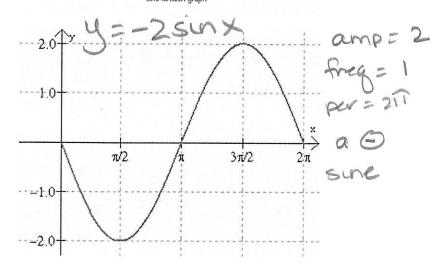
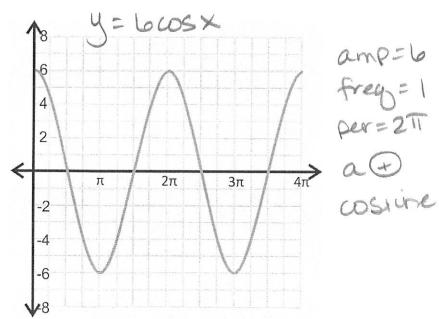
## SPIRAL REVIEW #7.1

1. State an equation of each function shown.







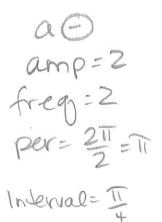


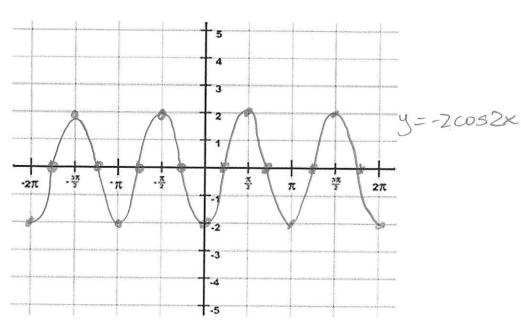
y=a. sun(bx+c)+d

amp frey HOR

shift

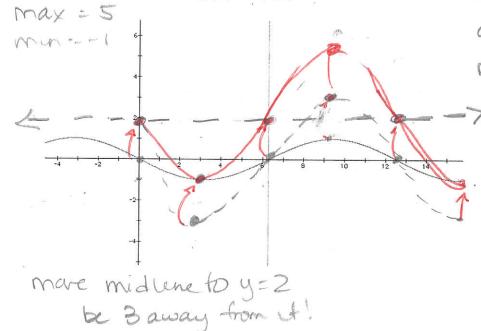
2. Sketch the graph of  $y = -2 \cos 2x$  over the interval  $-2\pi \le x \le 2\pi$ 





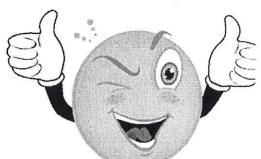
3. What is the amplitude, period and frequency of the graph of the equation  $y = -3\cos\frac{1}{4}x$ ?

4. A function, y = f(x) is represented by the graph shown. The function is transformed to create a new function g(x) = 3f(x) + 2. Sketch the new function, g(x) on the same set of axes.



amp=3 midure: y=2

> Stretch graph & mare lep 2



## $F(x) = A \sin (B X - C) + D$

"A" Stretches or squeezes the graph up and down it stretches the graph up and down if A > 1Squeezes the graph if 1 > A > 0Flips the graph (top for bottom) AND squeezes if 0 > A > -1Flips the graph (top for bottom) AND stretches if A < -1

"B" Stretches or squeezes the graph left and right. It squeezes the graph left and right if B > 1Stretches the graph if 1 > B > 0Flips the graph (left for right) AND stretches if 0 > B > -1Flips the graph (left for right) AND squeezes if B < -1

"C" Moves the graph to right if positive, to left if negative (because we used a negative sign in front of it)

"D" Moves the graph up if positive, down if negative.

