HOW OFTEN DID THE STUDENT WHO GOT "C" ON HIS TRIG FUNCTIONS TEST DO HIS HOMEWORK?

$f(x) = A\sin(Bx)$ $f(x) = A\cos(Bx)$

$|A|$ = Amplitude

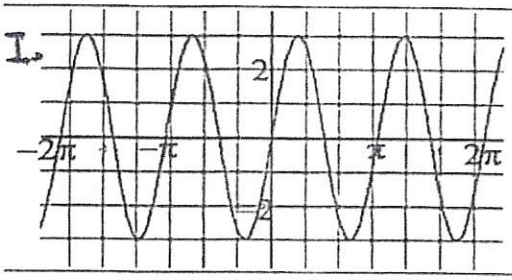
B represents the number of complete waves in an interval of 2π, therefore $\frac{2\pi}{B}$ = Period

Key

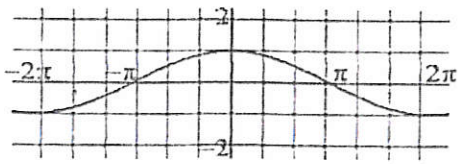
1) $f(x) = 3\sin x$	2) $f(x) = \sin(2x)$	3) $f(x) = \sin\frac{x}{4}$	4) $f(x) = \cos\left(\frac{1}{2}x\right)$
5) $f(x) = \cos(3x)$	6) $f(x) = \frac{1}{2}\sin(3x)$	9) $f(x) = \frac{3}{2}\sin\left(\frac{1}{2}x\right)$	10) $f(x) = 2\cos(\pi x)$
7) $f(x) = 3\sin(2x)$	8) $f(x) = 3\cos x$	11) $f(x) = 3\sin\frac{x}{3}$	12) $f(x) = 2\cos(3x)$

Match each function from above with a graph below.

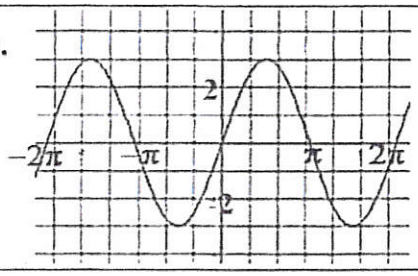
I.



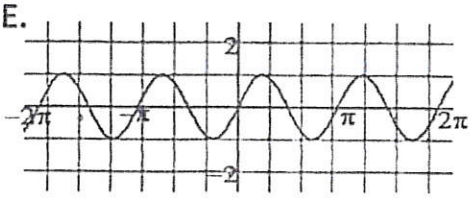
C.



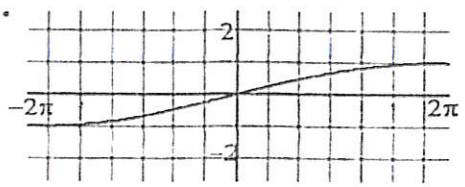
D.



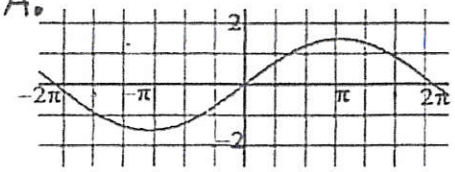
E.



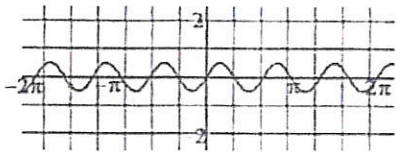
I.



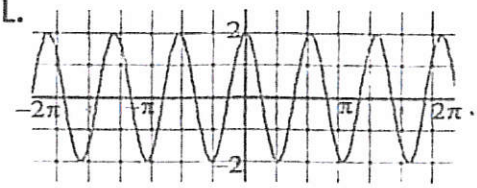
A.



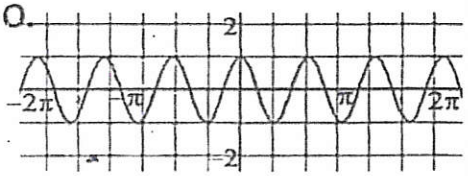
L.



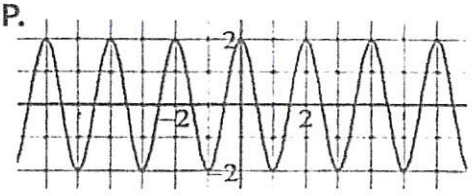
L.



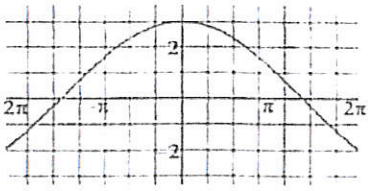
O.



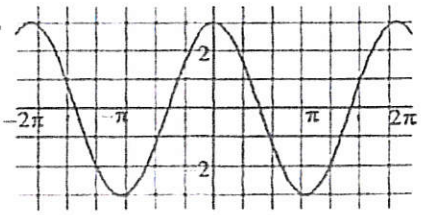
P.



R.



Y.



P	E	R	I	O	D	I	C	A	L	L	Y
10	2	11	3	5	1	7	4	9	12	6	10 8

Match the graph with the equation. Write the letter on the lines provided.

6.	7.	8.	9.	10.
$y = 2\sin\left(\frac{\pi}{2}x\right)$	$y = 2\cos\left(\frac{\pi}{2}x\right)$	$y = 2\cos\left(\frac{1}{2}x\right)$	$y = 3\cos(2x)$	$y = -3\sin(2x)$
Graph F	Graph E	Graph A	Graph I	Graph H
11.	**12.**	**13.**	**14.**	**15.**
$y = 2\sin\left(\frac{1}{2}x\right)$	$y = -2\cos\left(\frac{1}{2}x\right)$	$y = -2\cos\left(\frac{\pi}{2}x\right)$	$y = 3\sin(2x)$	$y = -2\sin\left(\frac{1}{2}x\right)$
Graph B	Graph C	Graph G	Graph J	Graph D