

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

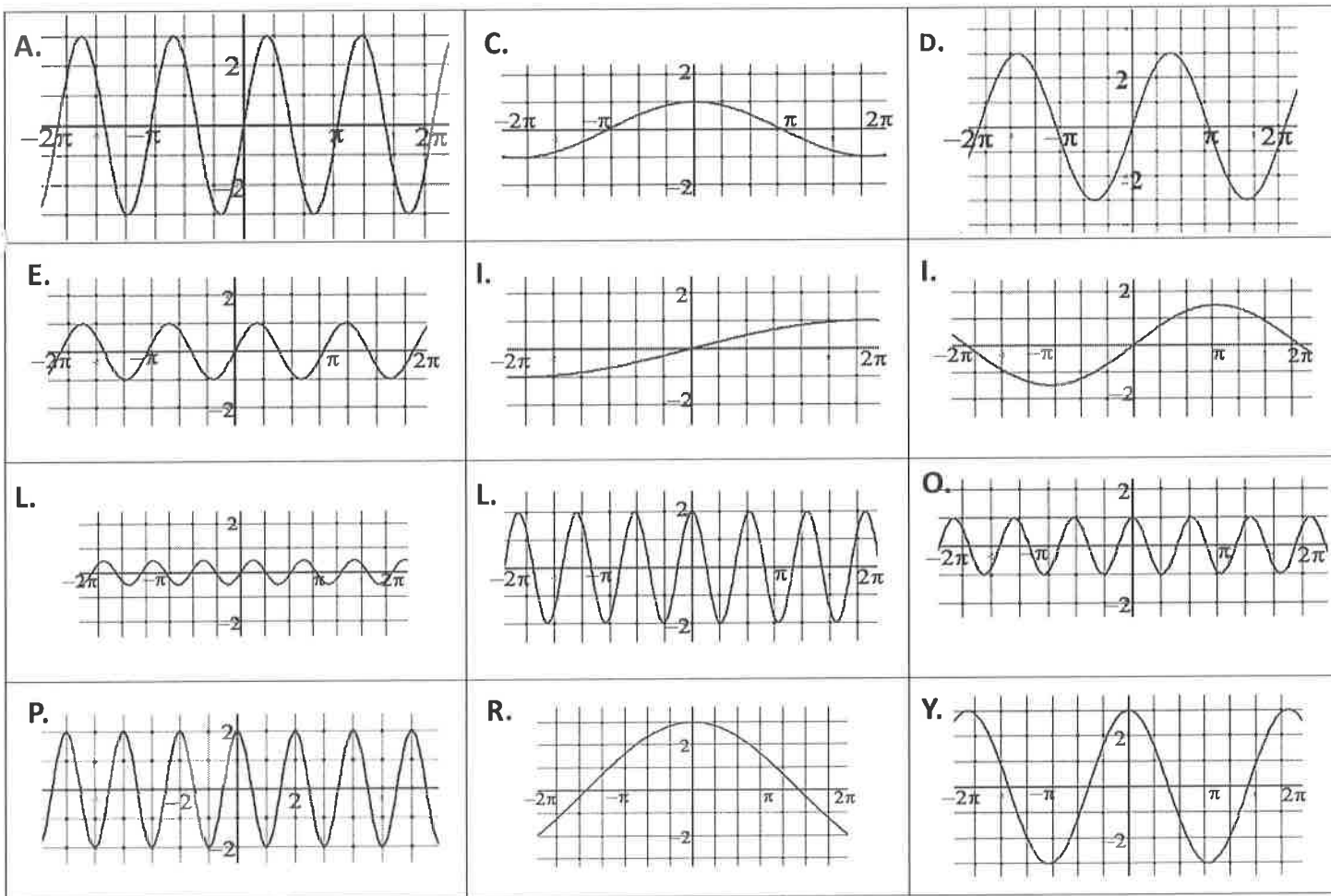
$$f(x) = A\sin(Bx) \quad f(x) = A\cos(Bx)$$

$|A|$  = Amplitude

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

1) $f(x) = 2\sin x$	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) $f(x) = 4\cos(\pi x)$
7) $f(x) = 3\sin(2x)$	8) $f(x) = 4\sin x$	11) $f(x) = 3\sin\frac{x}{3}$	12) $f(x) = 2\cos(3x)$

Match each function from above with a graph below.



8	2	11	3	5	1	7	4	9	12	6	10
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