HOW OFTEN DID THE STUDENT WHO GOT "C" ON HIS TRIG FUNCTIONS TEST DO HIS HOMEWORK?
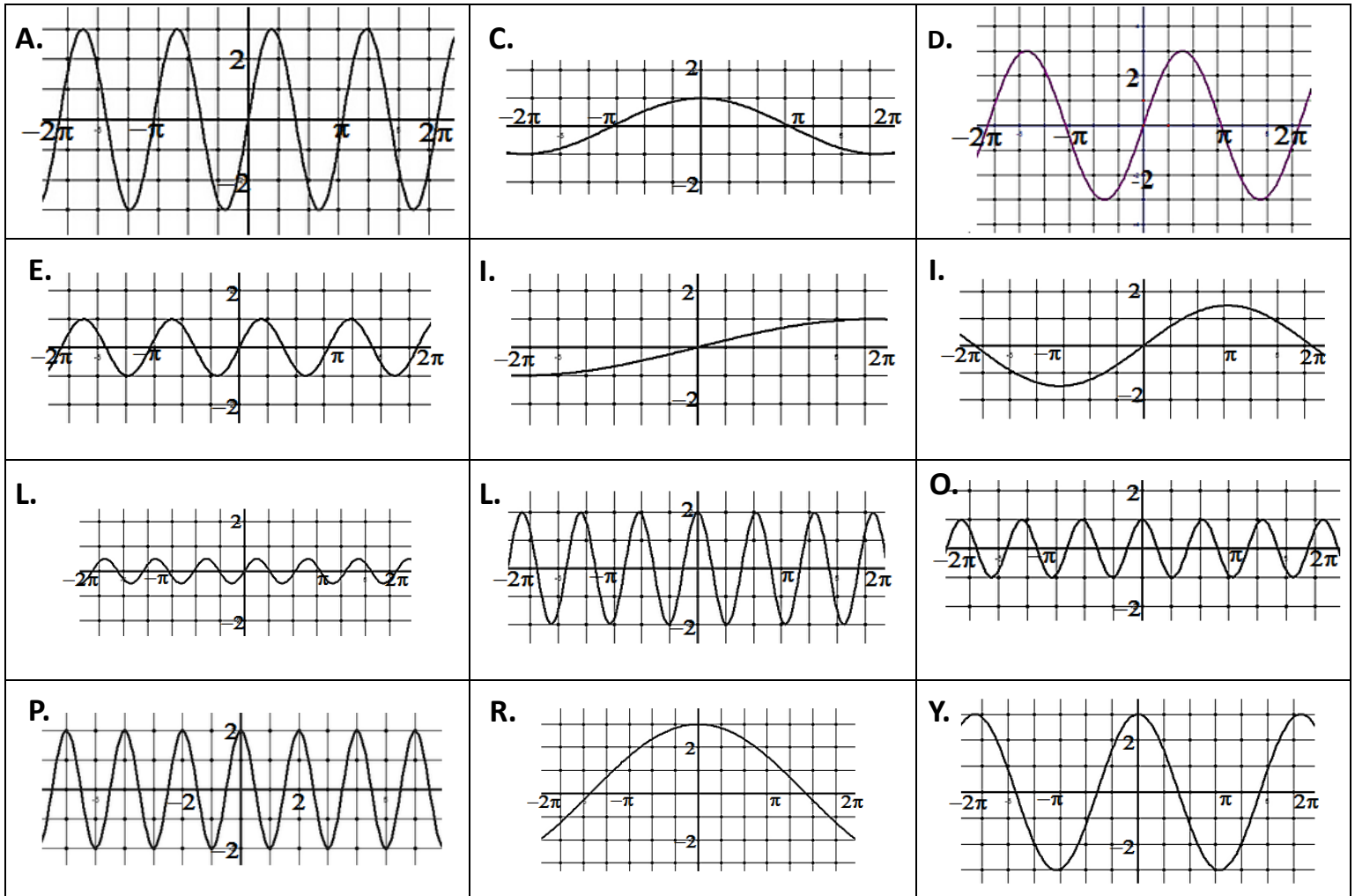
$$f(x) = A\sin(Bx) \qquad f(x) = A\cos(Bx)$$

$$|A| = \text{Amplitude}$$

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

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

Match each function from above with a graph below.

A.

C.

D.

E.

I.

I.

L.

L.

O.

P.

R.

Y.

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