

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

$f(x) = A\sin(Bx)$ $f(x) = A\cos(Bx)$
 $|A| = \text{Amplitude}$
 B represents the number of complete waves in an interval of 2π , therefore $\frac{2\pi}{B} = \text{Period}$

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. y = 3sin 2x f(x) = 3sin x

<p>I. </p>	<p>C. f(x) = cos 1/2 x </p>	<p>D. </p>
<p>E. f(x) = sin 2x </p>	<p>I. y = sin 1/4 x </p>	<p>A. f(x) = 3/2 sin(1/2 x) </p>
<p>L. y = 1/2 sin 3x </p>	<p>L. f(x) = 2 cos 3x </p>	<p>O. y = cos 3x </p>
<p>P. f(x) = 2 cos pi x </p>	<p>R. f(x) = 3 sin 1/3 x </p>	<p>Y. f(x) = 3 cos x </p>

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