

Trigonometry Examples

Examples > Trigonometry > Graphing Trigonometric Functions > Amplitude, Period, and Phase Shift

Example Problem:

$$f(x) = 2\sin(2x)$$

Step-By-Step Solution:

Use the form $a \sin(bx - c) + d$ to find the variables used to find the amplitude, period, phase shift, and vertical shift.

a = 2

b = 2

c = 0

d = 0

Find the amplitude (|a|).

Amplitude :2

Find the period using the formula $\frac{2\pi}{|b|}$. Period : π

Find the phase shift using the formula $\frac{c}{b}$. Phase Shift :0

Find the vertical shift (d).

Vertical Shift:0

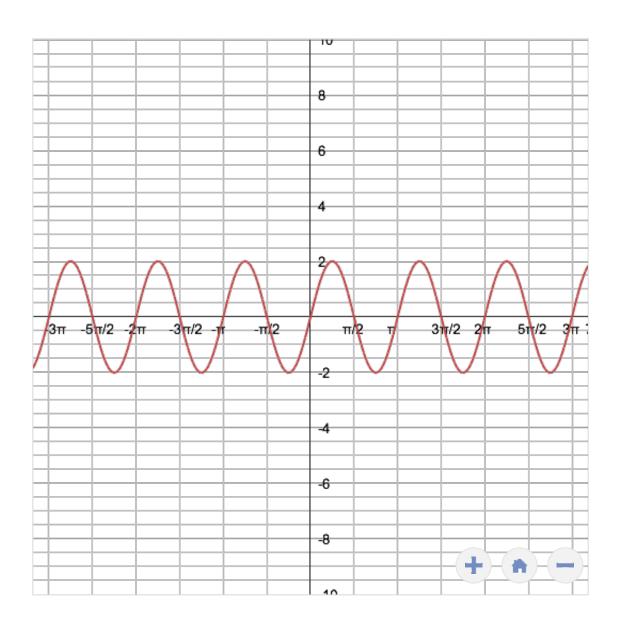
List the properties of the trigonometric function.

 ${\bf Amplitude:} 2$

Period : π

Phase Shift :0(0 to the right)

Vertical Shift :0



Enter YOUR Problem

