

# Trigonometric Functions

Spring \_\_\_\_\_

## Sine Function

$$y = a + \sin(b(x - c)) + d$$

Parent Function:  $y = \sin(x)$

Midline:  $y = 0$

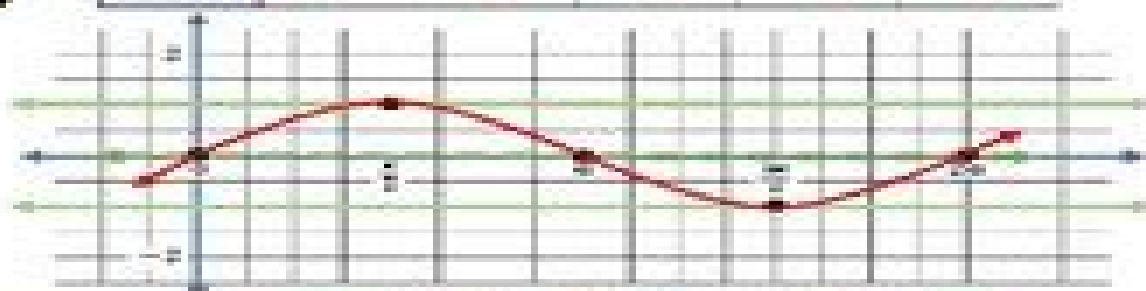
Amplitude: 1

Max: 1      Min: -1

Period:  $2\pi$

$$N \text{ Period: } \frac{1}{b}(2\pi) = \frac{2\pi}{b} = \frac{\pi}{b}$$

$\theta$	0	$\frac{\pi}{2}$	$\pi$	$\frac{3\pi}{2}$	$2\pi$
$\sin(x)$	0	1	0	-1	0



## Function

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

Parent Function:  $y = \sin(x)$

Midline:  $y = 0$

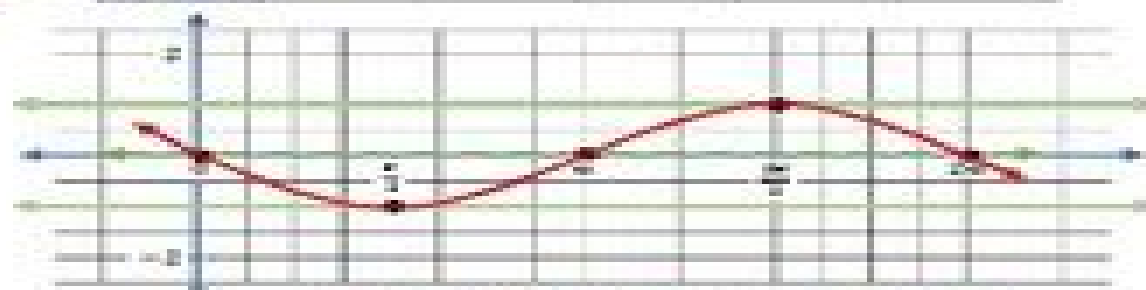
Amplitude: 1

Max: 1      Min: -1

Period:  $2\pi$

$$N \text{ Period: } \frac{1}{b}(2\pi) = \frac{2\pi}{b} = \frac{\pi}{b}$$

$x$	0	$\frac{\pi}{2}$	$\pi$	$\frac{3\pi}{2}$	$2\pi$
$f(x)$	0	-1	0	1	0



## Function

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

Parent Function:  $y = \sin(x)$

Midline:  $y = 0$

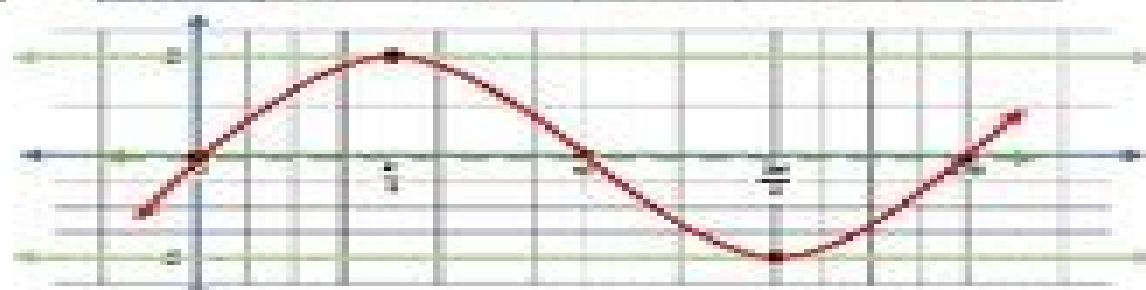
Amplitude: 2

Max: 2      Min: -2

Period:  $2\pi$

$$N \text{ Period: } \frac{1}{b}(2\pi) = \frac{2\pi}{b} = \frac{\pi}{b}$$

$x$	0	$\frac{\pi}{2}$	$\pi$	$\frac{3\pi}{2}$	$2\pi$
$y$	0	2	0	-2	0



# Graphing Transformations Trigonometric Functions

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