

Graphing of Trigonometric Functions Worksheet (Be/Li/Mg/Rb)

Basic Sine Function: $y = \sin x$

Characteristics:

Amplitude: _____	Domain: _____	even/odd/neither
Period: _____	Range: _____	continuous or not
Phase Shift: _____	y-intercept: _____	one-to-one or not
Vertical Shift: _____	x-intercept: _____	increasing at _____
		decreasing at _____

Basic Cosine Function: $y = \cos x$

Characteristics:

Amplitude: _____	Domain: _____	even/odd/neither
Period: _____	Range: _____	continuous or not
Phase Shift: _____	y-intercept: _____	one-to-one or not
Vertical Shift: _____	x-intercept: _____	increasing at _____
		decreasing at _____

General Form of the Sine/Cosine Function: $y = a \sin b(x - c) + d$ $y = a \cos b(x - c) + d$

Amplitude: _____	Period: _____
Phase Shift: _____	Vertical Shift: _____

When $|a| > 1$, _____; $|a| < 1$, _____

When $a < 0$, _____

When $|b| > 1$, _____; $|b| < 1$, _____

When $b < 0$, _____

When $c > 0$, _____

When $c < 0$, _____

When $d > 0$, _____

When $d < 0$, _____

Basic Tangent Function: $y = \tan x$

Characteristics:

Period: _____	Domain: _____	even/odd/neither
Phase Shift: _____	Range: _____	continuous or not
Vertical Shift: _____	y-intercept: _____	one-to-one or not
VA: _____	x-intercept: _____	increasing at _____
		decreasing at _____

Basic Cotangent Function: $y = \cot x$

Characteristics:

Period: _____	Domain: _____	even/odd/neither
Phase Shift: _____	Range: _____	continuous or not
Vertical Shift: _____	y-intercept: _____	one-to-one or not
VA: _____	x-intercept: _____	increasing at _____
		decreasing at _____

Basic Cosecant Function: $y = \csc x$

Characteristics:

Period: _____	Domain: _____	even/odd/neither
Phase Shift: _____	Range: _____	continuous or not
Vertical Shift: _____	y-intercept: _____	one-to-one or not
VA: _____	x-intercept: _____	increasing at _____
		decreasing at _____

Basic Secant Function: $y = \sec x$

Characteristics:

Period: _____	Domain: _____	even/odd/neither
Phase Shift: _____	Range: _____	continuous or not
Vertical Shift: _____	y-intercept: _____	one-to-one or not
VA: _____	x-intercept: _____	increasing at _____
		decreasing at _____