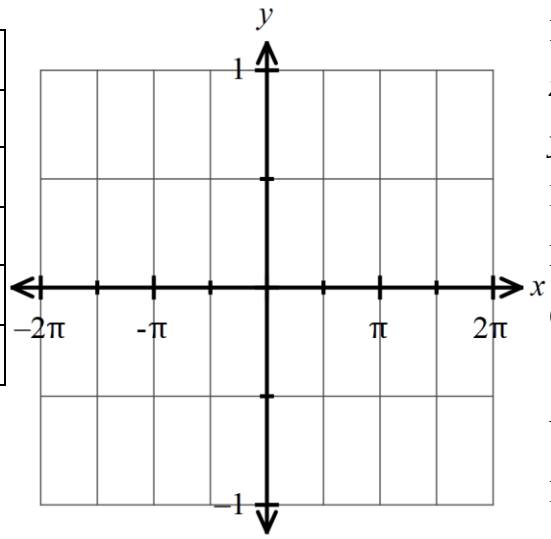
Name of Graph: _____

Equation: _____

x	$f(x)$



Key Features

Domain:

Range:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Constant:

Positive:

Negative:

Maximums /Minimums

Symmetry:

End Behavior:

$\lim_{x\to-\infty} f(x) =$

$\lim_{x\to\infty} f(x) =$

Amplitude:

Vertical Shift:

Period:

Phase Shift:

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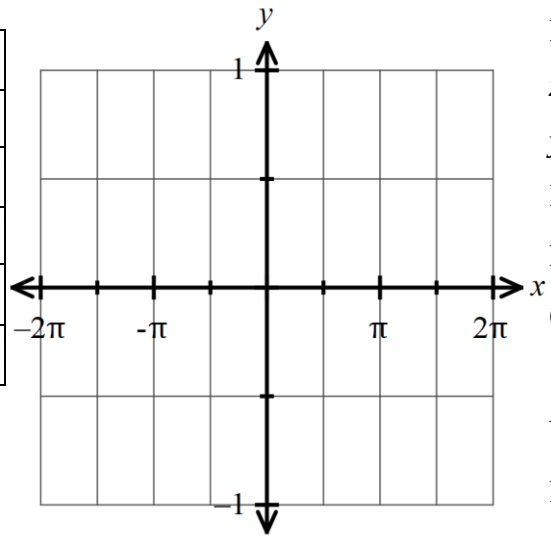

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Vertical Shift:

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Phase Shift:

Steps for solving sine equation:

1. get sine by itself
2. use All Students Take Calculus to find what quadrants to use & if needed draw triangles
3. find reference angle
   - unit circle
   - use calc.
4. find angles in standard position
   $\pm 180°$ or $-360°$
   $\pm \pi$ or -2π

ex. 1

$$\frac{6\sqrt{2}}{6\sqrt{2}} \sin\theta = \frac{3\sqrt{6}}{6\sqrt{2}}$$

$$\sin\theta = \frac{\sqrt{3}}{2}$$

unit 7

$$\sin^{-1}\left(\frac{\sqrt{3}}{2}\right) = \theta$$

unit 8

use unit circle to find $y = \frac{\sqrt{3}}{2}$

ref $\angle = 60°$

$\theta = 60°, 120°$

or

$\theta = \frac{\pi}{3}, \frac{2\pi}{3}$

Steps for solving sine equation: