

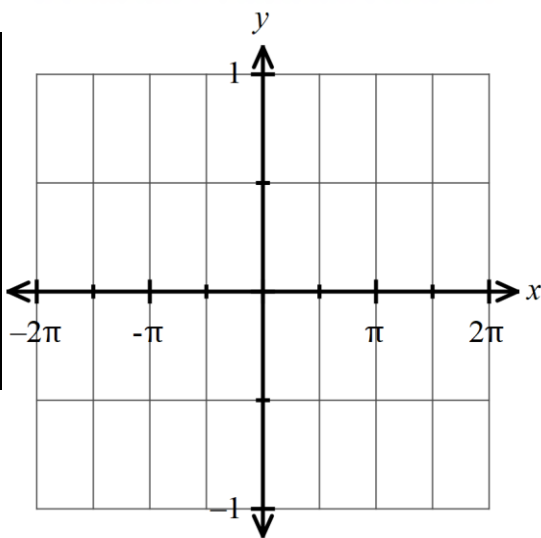
Parent Functions #10

Name of Graph: _____

Key Features

Equation: _____

x	$f(x)$



Domain:

Range:

x -intercept(s):

y -intercept:

Increasing:

Decreasing:

Constant:

Amplitude:

Period:

Positive:

Negative:

Maximums /Minimums

Symmetry:

End Behavior:

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

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

Phase Shift:

Vertical Shift:

Midline:

Cycle:

Transformation Equation:

Period formula:

amplitude formula:

Vertical Shift formula:

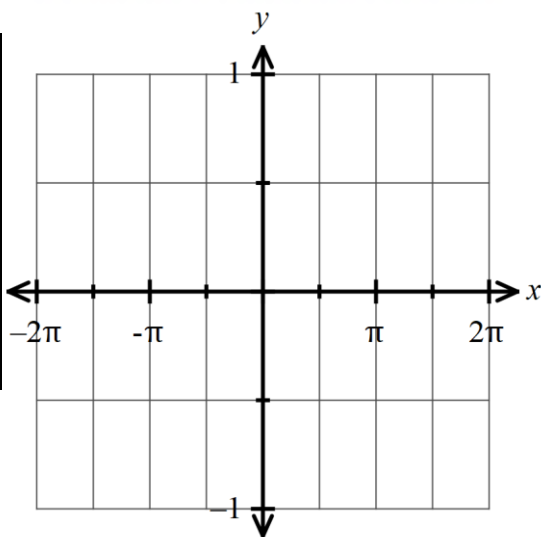
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Steps for solving sine equation:

1. Get sine by itself—do inverse operations
2. Use “All Students Take Calculus” to draw triangles in correct quadrants
3. Label the sides of the triangles—opposite over hypotenuse
4. Find the reference angle
5. Find the angles in standard position
Stop here if you are given an interval in the directions

EX. $-2 \sin x = 1$

EX. $2\sqrt{3} - 6 \sin x = 5\sqrt{3}$

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