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$f(x) = \sin x$; $g(x) = \sin 4x$ 62/87,21 The graph of $g(x)$ is the graph of $f(x)$ compressed horizontally. The period of $g(x)$ is $\frac{\pi}{2}$. To find corresponding points on the graph of $g(x)$, change the x -coordinates of those key points on $f(x)$ so that they range from 0 to $\frac{\pi}{2}$, increasing by increments of $\frac{\pi}{8}$. Sketch the curve through the indicated points for

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Graphing the parent functions of sine and cosine as well as some basic transformations (vertical stretch/shrink,

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horizontal stretch/shrink, and x-axis
reflec...

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4.4 Graphing Sine and Cosine Functions. Graphing sine and cosine functions is very simple once you learn and memorize the elements of the graphs. The first thing you need to know is the general form: Here is some basic information about the parent sine graph:

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The Graph of $y = a \sin(bx)$; Graphing $y = a \sin(bx)$ $|a|$ = amplitude of function. b = number of complete cycles from 0 to 2π $\frac{2\pi}{b}$ is the period of the function. 1. Calculate the amplitude, # of cycles, and period in order to graph a sine function. 2. For one period, identify the x-values for: zero, max, zero, min, zero by dividing the period by 4. 3.

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SECTION 4.4 Graphs of Sine and Cosine:

Sinusoids 387 EXAMPLE 2 Horizontal

Stretch or Shrink and Period Find the

period of each function and use the

language of transformations to describe

how the graphs are related.

4.4 Graphs of Sine and Cosine: Sinusoids

4.4 Graphing Sine and Cosine Functions

Recall our definitions from the Unit

Circle: $\cos\theta = x$ $\sin\theta = y$ $\tan\theta = y/x$ To

graph the basic trig function $y = \sin\theta$,

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let's translate the Unit Circle into a table of values and then graph the function on the x-y plane.

4.4 Graphing Sine and Cosine Functions

4.4: Graphing Sine and Cosine.

Objective: Graph transformations of the sine and cosine function. Basics of Sine and Cosine. A portion of the curve represents one period, or one cycle. (One hill and one valley) Notice the cosine graph is a horizontal translation of the sine graph.

HPC 4.4: Graphing Sine and Cosine

The graph of $g(x)$ is the graph of $f(x)$ compressed vertically. The amplitude of $g(x)$ is -1 . $f(x) = \cos x$ $g(x) = -\cos 4x$ The graph of $g(x)$ is the graph of $f(x)$ compressed vertically and reflected in the x-axis. The amplitude of $g(x)$ is -1 . 4 State the amplitude, period, frequency, phase shift, and vertical shift of each function.

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Graphing Sine and Cosine Functions

Notice that the period of the function is still 2π ; as we travel around the circle, we return to the point $(3,0)$ for

$x=2\pi, 4\pi, 6\pi, \dots$

Because the outputs of the graph will now oscillate between -3 and 3 , the amplitude of the sine wave is 3 .

Graphs of the Sine and Cosine Function | Precalculus

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4.5 - GRAPHS OF SINE & COSINE
FUNCTIONS Basic Sine & Cosine Curves

- The black portion of the graphs represents one cycle of the function and is called the period.
- The domain of the sine and cosine functions is the set of all real numbers.
- The range of each function is the interval $[-1, 1]$.
- Each function has a period of 2π .

4.5 GRAPHS OF SINE & COSINE FUNCTIONS

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Section 8.4 Graphing Sine and Cosine Functions 437 Each graph below shows five key points that partition the interval $0 \leq x \leq 2\pi$ — into four equal parts. You can use these points to sketch the graphs of $y = a \sin bx$ and $y = a \cos bx$. The x-intercepts, maximum, and minimum occur at these points.

Graphing Sine and Cosine Functions

Chapter 4: Trigonometric Functions.

Search for: Section 4.5: Graphs of the Sine and Cosine Function. Learning Outcomes. Determine amplitude, period, phase shift, and vertical shift of a sine or cosine graph from its equation. Graph variations of $y = \cos x$ and $y = \sin x$. Determine a function formula that would have a given sinusoidal graph.

Section 4.5: Graphs of the Sine and Cosine Function ...

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4.5 Graphing Sine and Cosine - HONORS PRECALCULUS

§ 4.1 Graphs of Sine and Cosine • graphing $y = \sin(x)$ and $y = \cos(x)$ • Trigonometric functions are called periodic meaning their outputs repeat over the same interval due to cotommd angles = $\pi/4$ $450 + 3600 = 4050$ / $45\%450 = 1$ $s, n(405) = 1 + . \#$ a 3600 • The period is the distance between x values that give same output: $2T \leftarrow$ full rotation $\sin(x) \dots$

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