

## 4 4 Graphing Sine And Cosine Functions

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Determining the Equation of a Sine and Cosine Graph Graphing a Sine Function by Finding the Amplitude and Period **Graphing Sine with a Phase Shift** 5.1 Graphing Sine and Cosine Functions (Pre-Calculus) 4. 4(3) **Graphing Sine and Cosine Functions** Graphing Sine and Cosine Functions with Transformations (Multiple Examples)

9 4 graphing sine \u0026 cosine functions 4 5 amplitude change graph sine cosine Graphing Sine and Cosine Functions – Basics MATH113 | 8.1 Graphs of Sine and Cosine Functions (pt. 4) | Graphing sine and cosine functions

4 4 Graphing Sine And

$f(x) = \sin x$ ;  $g(x) = \sin 4x$  62/87,21 The graph of  $g(x)$  is the graph of  $f(x)$  compressed horizontally. The period of  $g(x)$  is . 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 , increasing by increments of . Sketch the curve through the indicated points for

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4-4 Graphing Sine and Cosine Functions - TSFX

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Chapter 4 20 Glencoe Precalculus 4-4 Study Guide Graphing Sine and Cosine Functions Transformations of Sine and Cosine Functions A sinusoid is a transformation of the graph of the sine function. The general form of the sinusoidal functions sine and cosine are  $y = a \sin (bx + c) + d$  or  $y = a \cos (bx + c) + d$ . The graphs of

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4-4 Study Guide - Weebly

To graph a sine or cosine function when given an equation: 1) Label your a, b, h, and k values. 2) Find your (h, k) point, and remember insider is a liar when it comes to h value). 3) Draw dotted...

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4.4 Graphing Sine and Cosine Functions - Neda's ...

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. Above the max x-value, plot a point using the amplitude as your height. 4. Below the min x-value, plot a point using the amplitude as your height. 5. Connect the points with a smooth curve. 6.

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4-4 Graphing Sine and Cosine Functionst

4.4 Graphing Sine and Cosine Functions. 4.4 Graphing Sine and Cosine Functions. 4.4 Graphing Sine and Cosine Functions. Recall our definitions from the Unit Circle:  $\cos^2 = x$ .  $\sin^2 = y$ .  $\tan^2 = y/x$ . To graph the basic trig function  $y = \sin^2$ , let's translate the Unit Circle into a table of values and then graph the function on the x-y plane.

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4.4 Graphing Sine and Cosine Functions

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.

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4.4 Graphs of Sine and Cosine: Sinusoids

The graph of  $g(x)$  is the graph of  $f(x)$  compressed vertically. The amplitude of  $g(x)$  is  $\frac{1}{2}$ . 3 2.  $f(x) = \cos x$   $g(x) = -\frac{1}{2} \cos 4x$  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  $\frac{1}{2}$ . 4 State the amplitude, period, frequency, phase shift, and vertical shift of each function.

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## Graphing Sine and Cosine Functions

4 ? b (2?, a (b (Graphing a Sine Function Identify the amplitude and period of  $g(x) = 4 \sin x$ . Then graph the function and describe the graph of  $g$  as a transformation of the graph of  $f(x) = \sin x$ . SOLUTION The function is of the form  $g(x) = a \sin bx$  where  $a = 4$  and  $b = 1$ . So, the amplitude is  $a = 4$  and the period is  $2\pi / b = 2\pi / 1 = 2\pi$ .

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## Graphing Sine and Cosine Functions

Notice that the period of the function is still  $2\pi$ ; 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  $3$ .

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## Graphs of the Sine and Cosine Function | 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 coterminal angles  $= \frac{2\pi k}{4} + 3600 = 4050 / 45\%450 = 1$  s,  $n(405) = 1 +$ . # a 3600 • The period is the distance between  $x$  values that give same output:  $2\pi$  ? full rotation  $\sin(x) \dots$

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## Sine and Cosine.pdf - 4.1 • • of Graphs Sine Cosine and ...

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.

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

Steps for Sketching Graphs by Hand 1) Know the critical points on the Sine & Cosine Graphs (MEMORIZE THEM!!!). 2) Find the period of the function. 3) Establish the points along the  $x$ -axis. There should be FIVE points, including the starting and ending points, for each period length. 4) Find the amplitude, phase shift & displacement of the function.

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## 4.5 GRAPHS OF SINE & COSINE FUNCTIONS

Ch.4 (4-4) Graphing Sine and Cosine Functions Graphing the parent functions of sine and cosine as well as some basic transformations (vertical stretch/shrink, horizontal stretch/shrink, and  $x$ -axis reflection).

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## 4 4 Graphing Sine And Cosine Functions

A review of reference angles, special families of right triangles and basic sine and cosine functions

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## 7.4 Evaluating and Graphing Sine and Cosine Functions ...

Several graphing examples for sine and cosine curves including how to find: amplitude, period, phase shift, and vertical translations. Be sure to subscribe t...

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## Precalculus - 4.4 Notes Graphs: Graphing Sine and Cosine ...

Graphing Sine Function The trigonometric ratios can also be considered as functions of a variable which is the measure of an angle. This angle measure can either be given in degrees or radians . Here, we will use radians. The graph of a sine function  $y = \sin ( x )$  is looks like this:

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## Graphing Sine Function - Varsity Tutors

Yesterday we took a test on exact values of the six trigonometric functions Today we will look at the graphs of 1. Introduce the properties of the sine and cosine functions 2. Determine whether a graph is periodic 3. Find the values by looking at the sine and cosine graphs 4. Graph indicated periods for the sine and cosine functions 5. Understand the relationship between frequency and period 6.

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## gracieb - 4.4 A Graphing Sine and Cosine Bell Ringer Solve ...

9.4 Graphing Sine and Cosine Functions (continued) Name \_\_\_\_\_ Date \_\_\_\_\_ Go to [BigIdeasMath.com](http://BigIdeasMath.com) for an interactive tool to investigate this exploration. Work with a partner. a. Complete the table for  $yx= \cos$  using the same values of  $x$  as those used in Exploration 1.  $x$  ? 2 ? 7 4 ? ? 3 2 ? ? 5 4 ?

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## 9.4 Graphing Sine and Cosine Functions - Big Ideas Learning

Graphs of the Sine and Cosine Functions Divide the interval into four equal parts to obtain the values for which  $\sin bx$  or  $\cos bx$  equal  $-1$ ,  $0$ , or  $1$ . These values give the minimum points,  $x$ -intercepts, and maximum points on the graph. Find the midpoint of the interval by adding the  $x$ - values of the endpoints and dividing by 2.

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