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Functions

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Functions With Transformations,  
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~~Function Change and Phase Shift~~

~~Graphing Trigonometric Functions~~

~~(Example:  $y = 3\cos(x) - 2$ )~~ 5.1.1 Basic

~~Trigonometric Identities Trigonometry~~

~~- The graphs of sin and cos Graphing~~

~~the Sin(x) and Cos(X) Graphing Sine~~

~~and Cosine Functions Graphing Sine~~

~~and Cosine with a Phase Shift~~

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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

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9 4 graphing sine /u0026amp; cosine  
functions4 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

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4 4 Graphing Sine And

$$f(x) = \sin x; g(x) = \sin 4x$$

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

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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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4 4 Graphs Of Sine And Cosine

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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

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are  $y = a \sin (bx + c) + d$  or  $y = a \cos (bx + c) + d$ . The graphs of

---

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  $(h,$

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k) point, and remember insider is a liar when it comes to h value). 3) Draw dotted...

---

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

order to graph a sine function. 2. For

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Functions

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

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Definitions from the Unit Circle:  $\cos = x$ .  $\sin = y$ .  $\tan = y/x$ . To graph the basic trig function  $y = \sin$ , 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

# Download File PDF 4 4 Graphing Sine And Cosine Functions 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  $\frac{1}{3}$ .  $f(x) = \cos x$   $g(x) = \frac{1}{3} \cos x$

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**Functions**  
-1 cos 4 x 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

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

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## Graphing Sine And Cosine

Functions of the form  $g(x) = a \sin bx$  where  $a = 4$  and  $b = 1$ . So, the amplitude is  $a = 4$  and the period is  $2\pi - b = 2\pi - 1 = 2\pi$ .

---

Graphing Sine and Cosine Functions

Notice that the period of the function

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is still 2; 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 =  $\# / 4$

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$450+3600=4050 / 45\%450 = 1$

$s, n(405) = 1 + \# \text{ a } 3600$  • The period is the distance between  $x$  values that give same output:  $2T$  full rotation  
 $\sin(x \dots$

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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  $y = \cos x$

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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

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- 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 &

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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

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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

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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

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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

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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.

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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.

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a. Complete the table for  $y = \cos x$  using the same values of  $x$  as those used in Exploration 1.

$x = 2$	$x = 7$	$x = 4$	
$x = 3$	$x = 2$	$x = 5$	$x = 4$

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9.4 Graphing Sine and Cosine  
Functions - Big Ideas Learning

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## 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

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of the endpoints and dividing by 2.

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