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## **Graphs of Sine, Cosine and Tangent - MATH**

### 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

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function is the interval  $[-1, 1]$ . • Each function has a period of  $2\pi$ .

### **4.5 GRAPHS OF SINE & COSINE FUNCTIONS**

In general, any transformation of a sine function (or the graph of such a function) is a sinusoid.  $x = \sin 1x + p/22$   $y = \sin x$   $y = \cos x$  352 CHAPTER 4

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Trigonometric Functions DEFINITION

Sinusoid A function is a sinusoid if it can be written in the form where  $a$ ,  $b$ ,  $c$ , and  $d$  are constants and neither  $a$  nor  $b$  is 0.

$$f(x) = a \sin bx + c + d$$

## **4 4 Graphs Of Sine**

later in this section that  $\cos x = \sin \frac{\pi}{2} - x$

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&!%2". Each graph is an example of a sinusoid. In general, any transformation of a sine function (or the graph of such a function) is a sinusoid. 386 CHAPTER 4 Trigonometric Functions BASIC FUNCTION The Cosine Function  $f(x) = \cos x$  Domain: All reals Range:  $[-1, 1]$  Continuous



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## **4.4 Graphs of Sine and Cosine: Sinusoids**

View 4.1 Graphs of Sine & Cosine (Class notes from 10-14-20).pdf from MATH 121 at Diablo Valley College. 4.1 Graphs of  $y = \sin x$  and  $y = \cos x$  Below, make a table for arc length values  $x$ , and output

## **Graphs of the Sine and Cosine**

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## **Functions - Concept ...**

This Graphs of Trig Functions section covers :. Table of Trigonometric Parent Functions; Graphs of the Six Trigonometric Functions; Trig Functions in the Graphing Calculator; More Practice; Now that we know the Unit Circle inside out, let's graph the trigonometric functions on the

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coordinate system. The  $(x)$ -values are the angles (in radians – that's the way it's done), and the  $(y$  ...

### **4.5 - Graphs of Sine & Cosine Functions.pdf - | Course Hero**

Find amplitude, period, frequency, and graph (given an equation, draw the graph) Analyze the graph of a sinusoid

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(given a graph, write the equation) Solve application problems (will cover later)  
4-4 Sinusoids Part 1 (Watch before Day #28 lesson) We start addressing for real the sine and cosine waves, a.k.a. "Sinusoids."

## **4.1 Graphs of Sine & Cosine (Class notes from 10-14-20 ...**

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The graph of sine is called periodic because of this repeating pattern. It's symmetrical about the origin (thus, in math speak, it's an odd function). The sine function has 180-degree-point symmetry about the origin. If you look at it upside down, the graph looks exactly the same.

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## **How to Graph a Sine Function - dummies**

552 Chapter 4 Trigonometric Functions

We can obtain a more complete graph of  $y = \sin x$  by continuing the portion shown in Figure 4.62 to the left and to the right. The graph of the sine function, called a sine curve, is shown in Figure 4.63 .Any part of the graph that

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corresponds to one

## **2.4: Graphs of the Other Trigonometric Functions ...**

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### **4.5 GRAPHS OF 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  $x=2\pi, 4\pi, 6\pi, \dots$



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

### **Section 4.5 Graphs of Sine and Cosine Functions 551**

Sine and cosine are periodic functions, which means that sine and cosine graphs repeat themselves in patterns.

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You can graph sine and cosine functions by understanding their period and amplitude. Sine and cosine graphs are related to the graph of the tangent function, though the graphs look very different.

### **4.4.1 Graphs of Sine and Cosine**

View Notes - 4.5 - Graphs of Sine &

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Cosine Functions.pdf from MAC 1147 at Palm Beach Community College.

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

The Graph of the Tangent Function. The graph of the tangent function is very different than the graphs of the sine and cosine functions. One reason is that

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because  $\tan(t) = \frac{\sin(t)}{\cos(t)}$ , there are values of  $t$  for which  $\tan(t)$  is not defined.

## **Chapter 4.4 - Graphs of Sine and Cosine: Sinusoids - Mr ...**

3 February 14, 2019 Lesson 4.4

Homework 1. Find the amplitude of each

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function and describe the transformation that must be made to the graph of  $y = \sin x$  to graph the given function. Find the period of each function and describe the transformation that must

### **Graphs of the Sine and Cosine Function | Precalculus**

The Sine Function has this beautiful up-

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down curve which repeats every 360 degrees: Show Ads. Hide Ads About Ads. Graphs of Sine, Cosine and Tangent. A sine wave made by a circle: A sine wave produced naturally by a bouncing spring: Plot of Sine .

## **4.4 Graphs of Sine and Cosine: Sinusoids**

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Graphing Sine and Cosine Trig Functions With Transformations, Phase Shifts, Period - Domain & Range - Duration: 18:35. The Organic Chemistry Tutor 824,283 views 18:35

## **4.4 Graphs of Sine and Cosine: Sinusoids**

How to graph sine and cosine. How To

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Find The Amplitude, Period, Phase Shift, and Midline Vertical Shift of a Sine Cosine Function - Duration: 11:06. The Organic Chemistry Tutor 363,020 views

### **Section 4.4 Name Graphs of Sine and Cosine: Sinusoids**

4 Basic Sine and Cosine Curves The black portion of the graph represents



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one period of the function and is called one cycle of the sine curve. 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  $2\pi$ .

**Graphs of Trig Functions - She Loves Math**

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Looking again at the sine and cosine functions on a domain centered at the  $y$ -axis helps reveal symmetries. As we can see in Figure 6, the sine function is symmetric about the origin. Recall from Section 6.2: Trigonometric Functions: Unit Circle Approach that we determined from the unit circle that the sine function is an odd function because

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$\sin(-x) = -\sin x$ .

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