

## 4 5 Graphing Other Trigonometric Functions

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Example #5- Sketch Damped Trigonometric Functions A. Identify the damping factor  $f(x)$  of  $x \times y \sin 2$ . Then use a graphing calculator to sketch the graphs of  $f(x)$ ,  $-f(x)$ , and the given function in the same viewing window. Describe the behavior of the graph.

### 4.5 Graphing Other Trigonometric Functions

4.5 Graphing other Trig functions. 1. Due to the fact that these functions have a range that tends towards negative infinity , infinity, or even both, the coefficient of the trigonometric function...

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5 Sketching Graphs of Reciprocal Functions Tangent and

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Cotangent Functions intersect at the  $\pi$  points. Cotangent has asymptotes wherever  $\tan T \neq 0$ .  
 $f(x) = \tan x$   $g(x) = \frac{1}{\tan x}$   
Homework: p.277 #1, 4-6, 9-16; Graph #1, 5, 11, 12

## 4-5 Graphing Other Trigonometric Functions

4-5 Graphing Other Trigonometric Functions. Locate the vertical asymptotes, and sketch the graph of each function.  $y = 2 \tan x$   
62/87,21 The graph of  $y = 2 \tan x$  is the graph of  $y = \tan x$  expanded vertically. The period is  $y = a \tan (bx + c)$ , so  $a = 2$ ,  $b = 1$ , and  $c = 0$ . Use the tangent asymptote equations to find the location of the

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4.5 Graphing other Trig functions. STUDY. PLAY. Period of tan function. The PERIOD of a tangent function is the distance between any 2 consecutive vertical asymptotes. Properties of the Cotangent Function. The reciprocal of the tangent function, and is defined as  $\cot x = \frac{\cos x}{\sin x}$ .

## 4.5 Graphing other Trig functions Flashcards | Quizlet

For the four trigonometric functions, sine, cosine, cosecant and secant, a revolution of one circle, or  $2\pi$ , will result in the same outputs for these functions. And for tangent and cotangent, only a half a revolution will result in the same outputs. Other functions can also be periodic.

## 5.4: The Other Trigonometric Functions - Mathematics ...

Determine the amount of time  $t$  that it takes the string to be damped so that  $-0.24 \leq y \leq 0.24$ . 0.5 s. Practice. Graphing Other Trigonometric Functions. 4-5.  $f(x) = -\frac{1}{2}x$ ; the amplitude of the function is decreasing as  $x$  approaches 0.  $f(x) = -\frac{1}{3}x$ ; the amplitude of the function is decreasing as  $x$  approaches 0.

## NAME DATE PERIOD 4-5 Practice

Free graphing calculator instantly graphs your math problems. Mathway. Visit Mathway on the web. Download free on Google Play. Download free on iTunes. Download free on Amazon. Download free in Windows Store. get Go. Graphing. Basic Math. Pre-Algebra. Algebra. Trigonometry. Precalculus. Calculus. Statistics. Finite Math. Linear Algebra ...

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Graphing tangent, cotangent, cosecant, and secant functions. How To Graph Tangent and Cotangent Functions With Transformations & Phase Shift Trigonometry - Duration: 17:43. The Organic Chemistry ...

## PreCalc 4.5 Graphing Other Trig Functions 2018

Lesson 6-7 Graphing Other Trigonometric Functions 397 2 3 y csc x y sin x 1 1 2 2 y O x 1. The period is  $2\pi$ . The domain is the set of real numbers except  $n\pi$ , where  $n$  is an integer. 3. The range is the set of real numbers greater than or equal to 1 or less than or equal to -1. 4. There are no x-intercepts.

## 6-7: Graphing Other Trigonometric Functions

For the four trigonometric functions, sine, cosine, cosecant and secant, a revolution of one circle, or  $2\pi$ , will result in the same outputs for these functions. And for tangent and cotangent, only a half a revolution will result in the same outputs. Other functions can also be periodic.

## 5.3 The Other Trigonometric Functions - Precalculus | OpenStax

4 Graph of the Tangent Function The tangent function is odd,  $\tan(-x) = -\tan x$ . The graph of  $y = \tan x$  is symmetric with respect to the origin.  $\tan x = \frac{\sin x}{\cos x}$  tangent is undefined for values at which  $\cos x = 0$ . Two such values are  $x = \pm \frac{\pi}{2} \approx \pm 1.5708$ .

## 4.6 GRAPHS OF OTHER TRIGONOMETRIC FUNCTIONS

4.1: Graphing Polynomial Functions: Monitoring Progress: p.158: Exercises: p.162: 4.2: Adding, Subtracting, and Multiplying Polynomials: Monitoring Progress: p.166

## Solutions to Algebra 2: A Common Core Curriculum ...

SECTION 5.6 Graphs of Other Trigonometric Functions The Graph of  $y = \tan x$  The properties of the tangent function discussed in Section 5.4 will help us determine its graph. Because the tangent function has properties that are different from sinusoidal functions, its graph differs significantly from those of sine and cosine.

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## SECTION 5.6 Graphs of Other Trigonometric Functions

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5.5 Double-Angle Formulas . . . . .  
. 248 5.6 Power-Reducing Formulas ...

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338 Chapter 4 Trigonometry 31. (a) Since lies in Quadrant II. (b) Since lies in Quadrant IV.  $270 < 285 < 360$ ,  $285 - 90 < 130 - 180$ ,  $130 - 180 < 0$ . (a) Since lies in Quadrant I. (b) Since lies in

### CHAPTER 4 Trigonometry

Using Reference Angles to Evaluate Tangent, Secant, Cosecant, and Cotangent. We can evaluate trigonometric functions of angles outside the first quadrant using reference angles as we have already done with the sine and cosine functions. The procedure is the same: Find the reference angle formed by the terminal side of the given angle with the horizontal axis.

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