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\u0026 Phase Shift Trigonometry Section

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Advanced Functions 6.3 Graphs of Trigonometric functions using radians How

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to graph the tangent function Verifying Trigonometric Identities Easily - Strategy Explained (14 Examples) Trig Help: Graphing 3 - Phase Shift Graphing the Sin(x) and Cos(X) 2-1 Power and Radical Functions Part 1 Video

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Example #5- Sketch Damped Trigonometric
Functions A. Identify the damping factor

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$f(x)$ of x x 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
5 Sketching Graphs of Reciprocal Functions
Tangent and Cotangent Functions intersect at the π -points. Cotangent has asymptotes wherever $\tan T \neq 0$.
 $4 \quad 2-2 \quad 5 \quad 1 \quad f_x = \tan x \quad g_x = 1 \tan x$
Homework: p.277 #1, 4-6, 9-16;
Graph #1, 5, 11, 12

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4-5 Graphing Other Trigonometric Functions 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.

7.4 The Other Trigonometric Functions -

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Algebra and ...

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. $f(x) = \frac{1}{2} \cos(3x)$; the amplitude of the function is decreasing as x approaches 0. $f(x) = \frac{3}{2} \cos(x)$; the amplitude of the function is decreasing as x approaches 0.

NAME DATE PERIOD 4-5 Practice

Though sine and cosine are the trigonometric functions most often used,

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there are four others. Together they make up the set of six trigonometric functions. In this section, we will investigate the remaining functions. Finding Exact Values of the Trigonometric Functions Secant, Cosecant, Tangent, and Cotangent

5.4: The Other Trigonometric Functions - Mathematics ...

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

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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.

SECTION 5.6 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

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

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...

4.5 Graphing other Trig functions - EASY TRIG DUDE LEARN

4 Graph of the Tangent Function The

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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

Purplemath. You've already learned the basic trig graphs. But just as you could make the basic quadratic, $y = x^2$, more complicated, such as $y = -(x + 5)^2 - 3$,

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so also trig graphs can be made more complicated. We can transform and translate trig functions, just like you transformed and translated other functions in algebra.. Let's start with the basic sine function, $f(t) = \sin(t)$.

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Section 9.5 Graphing Other Trigonometric Functions 499 Each graph below shows five key x-values that you can use to sketch the graphs of $y = a \tan bx$ and $y = a \cot$

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bx for $a > 0$ and $b > 0$. These are the x -intercept, the x -values where the asymptotes occur, and the x -values halfway between the x -intercept and the asymptotes. At each halfway point, the value of the function is either a or $-a$.

9.5 Graphing Other Trigonometric Functions

4.5 Graphs of other Trig

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Now, pick up a baggie from the front table. Put yourself in teams of THREE.

Match the information with the equation

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and graph. EXCELLENT WORK!! Turn to 4.5 (page 365) and complete #'s 516

How did you do?

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5.3 The Other Trigonometric Functions - Precalculus | OpenStax

Lesson 6–7 Graphing Other Trigonometric Functions 395 6–7 R e a l W o r l d A p p l i c a t i o n OBJECTIVES ¥ Graph tangent, cotangent, secant, and cosecant functions. ¥ Write equations of trigonometric functions. midpoint d 6 ft camera driveway Look Back You can refer to Lesson 3–7 to review asymptotes. 4 4 8 8 y tan x y 0 x x 3 2 5 4 3 4 2 ...

6–7: Graphing Other Trigonometric

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Functions

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Chapter 4 Lesson 5 : Graphing Other Trig Functions ...

In other words, the graph of the cosine function is just the graph of the sine function shifted to the left by $\frac{\pi}{2}$

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= $\pi/2$) radians, as in Figure 5.1.5:
Figure 5.1.5 Graph of $(y = \cos x)$ To graph the tangent function, use $(\tan x = \frac{\sin x}{\cos x})$ to get the following graph: Figure 5.1.6 Graph of $(y = \tan x)$ Recall ...

5.1: Graphing the Trigonometric Functions - Mathematics ...

functions on the coordinate plane. You can use the same techniques to graph the tangent function and the reciprocal trigonometric functions—cotangent, secant,

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and cosecant. Since $\tan x$ the tangent function is undefined when $\cos x = 0$. Therefore the tangent $\cos x'$ function has a vertical asymptote whenever $\cos x = 0$.

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4 5 Graphing other trig functions Graphing the Tangent and Cotangent
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5.4: The Other Trigonometric Functions - Mathematics ...

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SECTION 5.6 Graphs of Other Trigonometric Functions

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Monitoring Progress: p.158: Exercises:

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Multiplying Polynomials: Monitoring Progress: p.166

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4.5 Graphing other Trig functions - EASY

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Functions 395 6–7 R e a l W o r l d A p p
l i c a t i o n OBJECTIVES ¥ Graph tangent,
cotangent, secant, and cosecant functions.
¥ W r i t e equations of trigonometric
functions. midpoint d 6 ft camera driveway
Look Back You can refer to Lesson 3–7 to
review asymptotes. 4 4 8 8 y tan x y 0 x x
3 2 5 4 3 4 2 ...

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