

4 5 Graphing Other Trigonometric Functions

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4 5 Graphing Other Trigonometric

4.5 Graphing Other Trigonometric Functions

Example #5- Sketch Damped Trigonometric Functions A Identify the damping factor $f(x)$ of $x y \sin 2$ 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

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Identify the damping factor $f(x)$ of each function 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 4-5 Graphing Other Trigonometric Functionsnotebook Subject: SMART Board Interactive Whiteboard Notes

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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

4-5 Graphing Other Trigonometric Functions

4 Homework: WS13-6K #5-13 odd & Graph Sketching Graphs of Reciprocal Functions Sine and Cosecant Functions intersect at the Min/Max points Cosecant has asymptotes wherever $\sin T L0$ Cosine and Secant Functions intersect at the Min/Max points Secant has asymptotes wherever $\cos T L0$ $2-2 5 1 f_x = \sin x g_x = 1 \sin x A$

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Then use a graphing calculator to sketch the graphs of $f(x)$, $if(x)$, and the given function in the same viewing window Describe the behavior of the graph 4-5 Graphing Other Trigonometric Functions $y = 2 \tan x$ The graph of $y = 2 \tan x$ is the graph of $y = \tan x$

You analyzed graphs of trigonometric functions.

You analyzed graphs of trigonometric functions (Lesson 4-4) LEQ: How do we graph tangent and reciprocal has a y-intercept other than 0 Damped Harmonic Motion The maximum displacement occurs when the string is Use a graphing calculator to determine the value of t when the graph of $y = 0.95e^{-13t} \cos 400$

NAME DATE PERIOD 4-5 Practice - Community Unit School ...

NAME DATE PERIOD Chapter 4 28 Glencoe Precalculus Write a trigonometric function that models the motion of the string $y = 0.6 e^{-18t} \cos 210\pi t$ b Determine the amount of time t that it takes the string to be damped so that $-0.24 \leq y \leq 0.24$ 05 s Practice Graphing Other Trigonometric Functions 4-5 $f(x)$

6.7 Graphing Other Trigonometric Functions

45 Graphing the Other Trigonometric Functions If $f(x)$ and $g(x)$ find $f(g(x))$, $g(f(x))$, $f(x) > 1$, $g(x) > 1$ @ x Bell Ringer Yesterday we looked at translations for the sine and cosine graphs Today we will take a look at the graphs of the other trigonometric functions, Tangent, Cotangent, Secant, and Cosecant

6-7: Graphing Other Trigonometric Functions

Lesson 6-7 Graphing Other Trigonometric Functions 397 2 3 $y = \csc x$, $y = \sin x$, $1 \leq y \leq 2$, $y = 0$, $x = 1$ The period is 2π 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 5 There are no y-intercepts 6

4.6 GRAPHS OF OTHER TRIGONOMETRIC FUNCTIONS

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 $x = \pm \frac{\pi}{2} \pm 15708$

Section 4.6 Graphs of Other Trigonometric Functions

Section 46 Graphs of Other Trigonometric Functions Objective: In this lesson you learned how to sketch the graphs of other trigonometric functions I Graph of the Tangent Function (Pages 332–333) Because the tangent function is odd, the graph of $y = \tan x$ is symmetric with respect to the origin The period of

4.6 Graphs of Other Trigonometric Functions

46 { Graphs of Other Trigonometric Functions 1 Graph of the Tangent Function 2 Graph of the Cotangent Function 3 Graphs of the Reciprocal Functions Accelerated Pre-Calculus 46 { Graphs of Other Trig Functions Mr Niedert 2 / 26

8.5 Graphing Other Trigonometric Functions

Section 85 Graphing Other Trigonometric Functions 447 Each graph below shows five key x-values that you can use to sketch the graphs of $y = a \tan bx$ and $y = a \cot bx$ 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 $-a$

Course Number Section 4.6 Graphs of Other Trigonometric ...

Larson/Hostetler/Edwards Precalculus with Limits: A Graphing Approach, Section 46 Graphs of Other Trigonometric Functions Objective: In this lesson you learned how to sketch the graphs of other trigonometric functions I Graph of the Tangent Function (Pages 309–311) Because the tangent function is odd, the graph of $y = \tan x$ is

TRIGONOMETRY NOTES By STEVEN SY Copyright 2008

01 Basic Facts 1 DO NOT BLINDLY APPLY powers and roots across expressions that have or signs 2 As in comment 1, is something that can NOT be simplified!!

9 Trigonometric Ratios and Functions

Evaluate the six trigonometric functions of the angle θ 1 θ 3 4 2 θ 17 15 3 θ 5 5 2 4 In a right triangle, θ is an acute angle and $\cos \theta = \frac{7}{10}$ Evaluate the other five trigonometric functions of θ The angles 30° , 45° , and 60° occur frequently in trigonometry You can use the trigonometric values for these angles to ...

Section 5.6 Inverse Trigonometric Functions ...

372 CHAPTER 5 Logarithmic, Exponential, and Other Transcendental Functions The graphs of the six inverse trigonometric functions are shown in Figure 529 EXAMPLE 1 Evaluating Inverse Trigonometric Functions Evaluate each function a b $\arccos 0$ c d Solution a By definition, implies that In the interval

Worksheet 15 KEY - Graphing Trigonometric Functions

Worksheet 15 KEY - Graphing Trigonometric Functions 1 5 4 3 2 -4 4 1 2 3 Twocyclesof thegraphareshowntoillustrate phase shift Again,we graph two cyclesto illustratethe phase shift This willbe thelasttime we graphtwo cyclesto illustratethe phase shift M110 Fa17 Page 4/7

P-BLTZMC04 459-584-hr 21-11-2008 13:06 Page 537 Section ...

Section 46 Graphs of Other Trigonometric Functions 539 Graphing a Tangent Function Graph for Solution Refer to Figure 479 as you read each step Step 1 Find two consecutive asymptotesWe do this by finding an interval

9.5 Graphing Other Trigonometric Functions

Section 95 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 $y = a \cot bx$ 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 $-a$