

# 4 5 Graphing Other Trigonometric Functions

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 SECTION 5.6 Graphs of Other Trigonometric Functions  
 Chapter 6 - 6.5 - Graphs of Other Trigonometric Functions ...  
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 Questions on Graphs of Trigonometric Functions  
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 Other Trigonometric Functions ...4.5  
 Graphing Other Trigonometric Functions  
 LEQ: Example #1- Graph Horizontal  
 Dilations of the Tangent Function Locate  
 the vertical asymptotes, and sketch the

graph of  $3 \tan x$ . Guided Practice-  
 Example #1 A. Locate the vertical  
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 graph of4.5 Graphing Other  
 Trigonometric Functions4.5 Graphing  
 other Trig functions 1. Due to the fact  
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 or even both, the coefficient of the  
 trigonometric function for them is not a  
 real amplitude and does not exist  
 halfway between the denotable  
 maximum and minimum lines.4.5  
 Graphing other Trig functions - EASY  
 TRIG DUDE LEARN5 Sketching Graphs of  
 Reciprocal Functions Tangent and  
 Cotangent Functions intersect at the  
 =points. Cotangent has asymptotes  
 wherever  $\tan T = 0$ . 4 2-2 5 1  $f(x) = \tan x$   $g(x)$

= 1 tan x Homework: p.277 #1, 4-6, 9-16; Graph #1, 5, 11, 124-5 Graphing Other Trigonometric Functions Access Free 4 5 Graphing Other Trigonometric Functions. period is  $y = a \tan (bx + c)$ , so  $a = 2$ ,  $b = 1$ , and  $c = 0$ . 4 5 Graphing Other Trigonometric Functions 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  $y = a \cot bx$  for  $a > 0$  and  $b > 0$ . 4 5 Graphing Other Trigonometric Functions Download Free 4 5 Graphing Other Trigonometric Functions 4 5 Graphing Other Trigonometric Functions When somebody should go to the ebook stores, search start by shop, shelf by shelf, it is in point of fact problematic. This is why we offer the books compilations in this website. It will certainly ease you to look guide 4 5 graphing other ... 4 5 Graphing Other Trigonometric Functions Graphing One Period of a Stretched or Compressed Tangent Function. We can use what we know about the properties of the tangent function to quickly sketch a graph of any stretched and/or compressed tangent function of the form  $f(x) = A \tan(Bx)$ . We focus on a single period of the function including the origin, because the periodic property enables us to extend the graph to the ... Graphs of the Other Trigonometric Functions | Precalculus IIa. Write a trigonometric function that models the motion of the string.  $y = 0.6 e^{-1.8t} \cos 210\pi t$  b. Determine the amount of time  $t$  that it takes the string to be damped so that  $-0.24 \leq y \leq 0.24$ . 0.5 s Practice Graphing Other Trigonometric Functions 4-5  $f(x) = -1.2x$ ; the amplitude of the function is decreasing as  $x$  approaches 0  $f(x)$  ... NAME DATE PERIOD 4-5

Practice Multiple choice questions on the properties of the graphs of trigonometric functions with answers at the bottom of the page. Questions and their Answers Question 1 What is the period of the graph shown below? a)  $\pi/3$  b)  $5\pi/3$  c)  $2\pi/3$  d)  $2\pi$  Question 2 Questions on Graphs of 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  $x = \pm \frac{\pi}{2} \pm 1.5708$ . 4.6 GRAPHS OF OTHER TRIGONOMETRIC FUNCTIONS Algebra and Trigonometry 10th Edition answers to Chapter 6 - 6.5 - Graphs of Other Trigonometric Functions - 6.5 Exercises - Page 475 23 including work step by step written by community members like you. Textbook Authors: Larson, Ron, ISBN-10: 9781337271172, ISBN-13: 978-1-33727-117-2, Publisher: Cengage Learning Chapter 6 - 6.5 - Graphs of Other Trigonometric Functions ... 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  $y = a \cot bx$  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 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. SECTION 5.6 Graphs of

Other Trigonometric Functions Lesson 6-7  
 Graphing Other Trigonometric Functions  
 399 15 10 5 5 10 15 y 6 tan t 30 5 10 15  
 5 15 O t R e a W o r l d A p p l i c a t i o n  
 4 k : 2 k The period is . k 2 c: k c 3 The  
 phase shift is 3. 2 c 3 k 2 c 2 3 Example  
 5. Communicating Mathematics Guided  
 Practice Practice Read and study the  
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 Graphing Other Trigonometric  
 Functions Graphs: Other Trigonometric  
 Functions. The tangent is an odd  
 function because. The tangent has a  
 period of  $\pi$  because. The tangent is  
 undefined whenever  $\cos x = 0$ . This  
 occurs when  $x = q\pi/2$ , where  $q$  is an odd  
 integer. At these points, the value of the  
 tangent approaches infinity and is  
 undefined. Graphs: Other Trigonometric  
 Functions PreCal 4-5 Graphing Other  
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 Function with a New Period - Duration:  
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 Trigonometric Functions period:  $f(1) = 5$   
 $\tan(\pi/4) = 1$ ; after 1 second,  
 the beam of has moved 5 ft from the  
 spot across from the police car. Access  
 these online resources for additional  
 instruction and practice with graphs of  
 other trigonometric functions. Graphs of  
 the Other Trigonometric Functions ·  
 Precalculus Analyzing the Graphs of  $y =$   
 $\sec x$  and  $y = \csc x$ . The secant was  
 defined by the reciprocal identity Notice  
 that the function is undefined when the  
 cosine is 0, leading to vertical  
 asymptotes at  $x = \frac{3\pi}{2}, \frac{7\pi}{2}, \dots$  etc. Because the cosine is  
 never more than 1 in absolute value, the  
 secant, being the reciprocal, will never  
 be less than 1 in absolute value. Graphs  
 of the Other Trigonometric Functions -  
 Algebra and ... 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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a. Write a trigonometric function that  
 models the motion of the string.  $y = 0.6$   
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Graphs: Other Trigonometric Functions.  
 The tangent is an odd function because.  
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#### **Graphs of the Other Trigonometric Functions | Precalculus II**

Multiple choice questions on the properties of the graphs of trigonometric functions with answers at the bottom of the page. Questions and their Answers  
Question 1 What is the period of the graph shown below? a)  $\pi/3$  b)  $5\pi/3$  c)  $2\pi/3$  d)  $2\pi$  Question 2

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period:  $f(1) = 5 \tan (\pi/4(1)) = 5(1) = 5$ ; after 1 second, the beam of has moved 5 ft from the spot across from the police car. Access these online resources for

additional instruction and practice with graphs of other trigonometric functions.

#### **SECTION 5.6 Graphs of Other Trigonometric Functions**

4.5 Graphing Other Trigonometric Functions LEQ: Example #1- Graph Horizontal Dilations of the Tangent Function Locate the vertical asymptotes, and sketch the graph of  $3 \tan x$ .

Guided Practice-Example #1 A. Locate the vertical asymptotes of  $y = \tan 4x$ . B.

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Chapter 6 - 6.5 - Graphs of Other

Trigonometric Functions ...

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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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.

Questions on Graphs of Trigonometric Functions

5 Sketching Graphs of Reciprocal Functions Tangent and Cotangent

Functions intersect at the  $\pm$  points.

Cotangent has asymptotes wherever  $\tan x$  is 0.  $f(x) = \tan x$   $g(x) = 1/\tan x$

Homework: p.277 #1, 4-6, 9-16; Graph #1, 5, 11, 12

Section 4-5 Part A Graphing 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  $x = \pm \frac{\pi}{2} \approx \pm 1.5708$ .

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Lesson 6-7 Graphing Other Trigonometric Functions 399 15 10 5 5 10 15 y 6 tan t 30 5 10 15 5 15 O t R e a W o r l d A p p l i c a t i o n 4 k : 2 k The period is  $\frac{\pi}{k}$ . The phase shift is  $\frac{c}{k}$ . Example 5.

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4 5 Graphing Other Trigonometric 6-7: [Graphing Other Trigonometric Functions](#)

Graphing One Period of a Stretched or Compressed Tangent Function. We can use what we know about the properties of the tangent function to quickly sketch a graph of any stretched and/or compressed tangent function of the form  $f(x) = A \tan(Bx - C) + D$ . We focus on a single period of the function including the origin, because the periodic property enables us to extend the graph to the ...

*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 for them is not a real amplitude and does not exist halfway between the denotable maximum and minimum lines.