

Tangent Tables and Graphs

Recall that unit circles centered at the origin with radius of 1 unit. If θ is a real number measured in radians, then θ corresponds to a point on the circle, that is defined as $(\cos \theta, \sin \theta)$. In this section, the trigonometric functions are defined as follows:

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

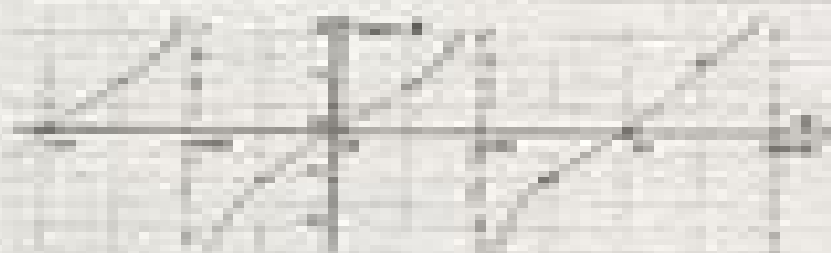
$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$



1) Use the definition to complete the table for values of the tangent function.

θ	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	π
Function	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	undefined	$-\sqrt{3}$	-1	$-\frac{1}{\sqrt{3}}$	0
Graph									

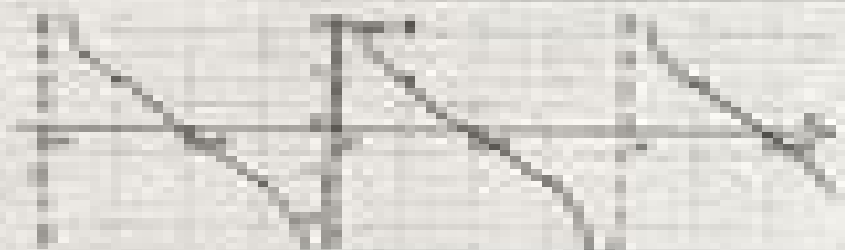
2) Plot these points and use the curve to sketch the graph of $y = \tan \theta$.



3) Use the unit circle definition to complete the table for values of the cotangent function.

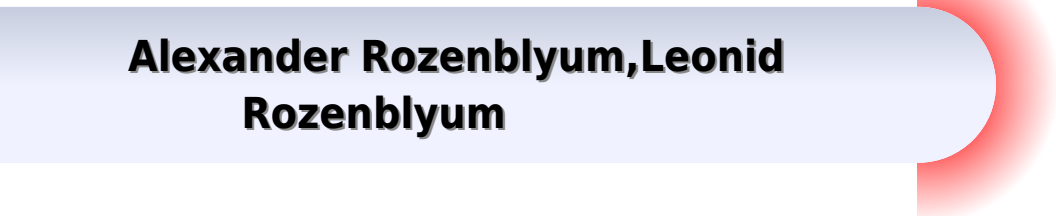
θ	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	π
Function	undefined	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0	$-\frac{1}{\sqrt{3}}$	-1	$-\sqrt{3}$	undefined
Graph									

4) Plot these points and use the curve to sketch the graph of $y = \cot \theta$.



Trig Tables And Graphs Pp 1 Of 2

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Rozenblyum**



Trig Tables And Graphs Pp 1 Of 2:

A-Level Maths Textbook: Year 1 & 2, 2021-08-27 This huge CGP Textbook is packed with thousands of questions for both years of A Level Maths it's suitable for the Edexcel AQA OCR and OCR MEI courses It's perfect for helping students put their knowledge to the test and build their skills The book also contains plenty of worked examples practice exercises on almost every page and review questions at the end of each chapter Better still answers to every question are included at the back *Maryland Academy of Sciences Bulletin* Maryland Academy of Sciences, 1921 *The Publishers' Trade List Annual*, 1875 **Engineering-contracting**, 1908 *The Publishers Weekly*, 1908 **Logarithmic and Trigonometric Tables** Daniel Alexander Murray, 1899 [Trigonometry For Dummies](#) Mary Jane Sterling, 2023-03-08 Make trigonometry as easy as 1 2 3 Believe it or not trigonometry is easier than it looks With the right help you can breeze through your next trig class test or exam and be ready for your next math challenge In *Trigonometry For Dummies* you'll learn to understand the basics of sines cosines and tangents graph functions solve tough formulas and even discover how to use trig outside the classroom in some cool and interesting ways Ditch the confusing jargon and take a plain English tour of one of the most useful disciplines in math In this lifesaving guide you'll learn how to Graph trig functions including sine cosine tangent and cotangent functions Understand inverse trig functions and solve trig equations Relate triangles to circular functions and get a handle on basic identities So whether you're looking for an easy to use study guide to boost your math grade or get a refresher on some basic trig concepts after a long absence from studying *Trigonometry For Dummies* is your ticket to understanding the mathematical mysteries of the triangle [Let's Review Regents: Algebra II Revised Edition](#) Barron's Educational Series, Gary M. Rubenstein, 2021-01-05 Barron's *Let's Review Regents Algebra II* gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Algebra II topics prescribed by the New York State Board of Regents Features include In depth Regents exam preparation including two recent Algebra II Regents exams and answer keys Easy to read topic summaries Step by step demonstrations and examples Hundreds of sample questions with fully explained answers for practice and review and more Review of all Algebra II topics including Polynomial Functions Exponents and Equations Transformation of Functions Trigonometric Functions and their Graphs Using Sine and Cosine and much more Teachers can also use this book to plan lessons and as a helpful resource for practice homework and test questions *Mathematics for Secondary School Teachers* Elizabeth G. Bremigan, Ralph J. Bremigan, John D. Lorch, 2011 *Mathematics for Secondary School Teachers* discusses topics of central importance in the secondary school mathematics curriculum including functions polynomials trigonometry exponential and logarithmic functions number and operation and measurement Acknowledging diversity in the mathematical backgrounds of pre service teachers and in the goals of teacher preparation programs the authors have written a flexible text through which instructors can emphasize any of the following Basics exploration of key pre college topics from intuitive and

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Trigonometry Charles P. McKeague, 2014-05-10 Trigonometry focuses on the principles operations formulas and functions involved in trigonometry The publication first takes a look at the six trigonometric functions right triangle trigonometry and radian measure Discussions focus on radian and degrees unit circle and even and odd functions length of arc and area of a sector trigonometric functions of an acute angle solving right triangles rectangular coordinate system and angles degrees and special triangles The manuscript then examines graphing and inverse functions identities and formulas and equations Topics include solving trigonometric equations parametric equations and further graphing sum and difference formulas half angle formulas additional identities phase shift

amplitude and period graphing combinations of functions and inverse trigonometric functions The text ponders on complex numbers and polar coordinates triangles and equations including the law of sines and cosines products and quotients in trigonometric form roots of a complex number and polar coordinates The book is a dependable reference for students and readers interested in trigonometry *Engineering and Contracting* ,1908 [The New International Encyclopædia](#) Daniel Coit Gilman,Harry Thurston Peck,Frank Moore Colby,1907 **The Library Bulletin of Cornell University** ,1886

Learning Trigonometry By Problem Solving Alexander Rozenblyum,Leonid Rozenblyum,2021-06-25 In this book trigonometry is presented mainly through the solution of specific problems The problems are meant to help the reader consolidate their knowledge of the subject In addition they serve to motivate and provide context for the concepts definitions and results as they are presented In this way it enables a more active mastery of the subject directly linking the results of the theory with their applications Some historical notes are also embedded in selected chapters The problems in the book are selected from a variety of disciplines such as physics medicine architecture and so on They include solving triangles trigonometric equations and their applications Taken together the problems cover the entirety of material contained in a standard trigonometry course which is studied in high school and college We have also added some interesting in our opinion entertainment problems To solve them no special knowledge is required While they are not directly related to the subject of the book they reflect its spirit and contribute to a more lighthearted reading of the material *Pre-Calculus For Dummies* Krystle Rose Forseth,Christopher Burger,Michelle Rose Gilman,Deborah J. Rumsey,2008-04-07 Offers an introduction to the principles of pre calculus covering such topics as functions law of sines and cosines identities sequences series and binomials

Index to Educational Overhead Transparencies National Information Center for Educational Media,1980 *Publishers' Weekly* ,1896 *Graph Theory* Ronald Gould,2013-10-03 An introductory text in graph theory this treatment covers primary techniques and includes both algorithmic and theoretical problems Algorithms are presented with a minimum of advanced data structures and programming details 1988 edition **Fractional Graph Theory** Edward R. Scheinerman,Daniel H. Ullman,2013-04-29 This volume explains the general theory of hypergraphs and presents in depth coverage of fundamental and advanced topics fractional matching fractional coloring fractional edge coloring fractional arboricity via matroid methods fractional isomorphism and more 1997 edition

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