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Lectures on Selected Topics in Mathematical Physics Jan 28 2020 This volume is a basic introduction to certain aspects of elliptic functions and elliptic integrals. Primarily, the elliptic functions stand out as closed solutions to a class of physical and geometrical problems giving rise to nonlinear differential equations. While these nonlinear equations may not be the types of greatest interest currently, the fact that they are solvable exactly in terms of functions about which much is known makes up for this. The elliptic functions of Jacobi, or equivalently the Weierstrass elliptic functions, inhabit the literature on current problems in condensed matter and statistical physics, on solitons and conformal representations, and all sorts of famous problems in classical mechanics. The lectures on elliptic functions have evolved as part of the first semester of a course on theoretical and mathematical methods given to first and second year graduate students in physics and chemistry at the University of North Dakota. They are for graduate students or for researchers who want an elementary introduction to the subject that nevertheless leaves them with enough of the details to address real problems. The style is supposed to be informal. The intention is to introduce the subject as a moderate extension of ordinary trigonometry in which the reference circle is replaced by an ellipse. This endeavour depends upon fewer tools and has seemed less intimidating than other typical introductions to the subject that depend on some knowledge of complex variables. The first three lectures assume only calculus, including the chain rule and elementary knowledge of differential equations. In the later lectures, the complex analytic properties are introduced naturally so that a more complete study becomes possible.

Intermediate Algebra with Trigonometry May 02 2020 Intermediate Algebra with Trigonometry focuses on principles, operations, and approaches employed in intermediate algebra with trigonometry. The publication first elaborates on basic properties and definitions, first-degree equations and inequalities, and exponents and polynomials. Discussions focus on polynomials, sums, and differences, multiplication of polynomials, greatest common factor and factoring by grouping, inequalities involving absolute value, equations with absolute value, and multiplication, division, and order of operation for real numbers. The manuscript then ponders on rational expressions, quadratic equations, and rational expressions and roots. Topics include equations quadratic in form, quadratic formula, completing the square, multiplication and division of complex numbers, equations with radicals, simplified form for radicals, multiplication and division of rational expressions, and addition and subtraction of rational expressions. The text takes a look at triangles, trigonometric identities and equations, introduction to trigonometry, and sequence and series, including arithmetic progressions, trigonometric functions, tables and calculators, sum and difference formulas, and the law of sines and cosines. The publication is a valuable reference for students and researchers interested

in intermediate algebra with trigonometry.

New Strategic Research on China (Shanghai) Pilot Free Trade Zone Jun 02 2020 Trigonometric Functions and Complex Numbers covers the following areas in the International Mathematical Olympiad (IMO) and other mathematical competitions. Trigonometric identity, graphs and properties of trigonometric equations, inverse trigonometric functions and trigonometric equations, solutions of triangles, trigonometric substitution and trigonometric inequality; The concept and operation of complex numbers, trigonometric form of a complex number, complex number and equation. The contents are essential for the IMO. A good help for students who want to improve in these areas.

A Level Mathematics Aug 29 2022 Here I offer a complete Lesson on Maths A level suitable to Edexcel C2 Trigonometry (Trigonometrical Identities and Simple Equations). This set of notes completely covers the chapter with 52 worked examples. With over 20 years experience in teaching O level and A level Mathematics (Pure Mathematics and Mechanics) I offer this notes covering a wide range of problems with complete solutions. In this way I hope to help students achieve a high score in their A level Maths examination. Each Lesson covers theory and formula necessary for the chapter, and step by step explanation of all solutions. Problems are arranged in an ascending order of difficulty reaching A level standard. The aim is to show students as many worked examples as possible which is not practical to see in class or with a personal tutor. Applies also for any students studying at this level. It includes: 1) Simple trigonometric formula: a) $\tan x = \frac{\sin x}{\cos x}$ b) $\sin^2(x) + \cos^2(x) = 1$ 2) Proving Identities using the above formula. 3) Solving trigonometric equations. (Use of general solutions, for $\sin x$, $\cos x$ and $\tan x$, to solve a trigonometric equation in a given interval).

Precalculus Sep 29 2022 "Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses."--Preface.

Trigonometry For Dummies May 26 2022 A plain-English guide to the basics of trig Trigonometry deals with the relationship between the sides and angles of triangles... mostly right triangles. In practical use, trigonometry is a friend to astronomers who use triangulation to measure the distance between stars. Trig also has applications in fields as broad as financial analysis, music theory, biology, medical imaging, cryptology, game development, and seismology. From sines and cosines to logarithms, conic sections, and polynomials, this friendly guide takes the torture out of trigonometry, explaining basic concepts in plain English and offering lots of easy-to-grasp example problems. It also explains the "why" of trigonometry, using real-world examples that illustrate the value of trigonometry in a variety of careers. Tracks to a typical Trigonometry course at the high school or college level Packed with example trig problems From the author of Trigonometry Workbook For Dummies Trigonometry For Dummies is for any student who needs an introduction to, or better understanding of, high-school to college-level trigonometry.

A Trigonometric Primer Mar 12 2021 CONTENTS: Introduction; Arcs & Angles; The Six Fundamental Trigonometric Functions; The Summation Formulas Trigonometric Functions; Transformations of Trigonometric Functions; Trigonometric Equations; Trigonometric Systems of Equations; Some Important Trigonometric Inequalities; Inverse Trigonometric Functions; General Facts About Triangles.

A Treatise on Plane and Spherical Trigonometry Dec 29 2019

Algebra and Trigonometry Dec 09 2020 Algebra and Trigonometry presents the essentials of algebra and trigonometry with some applications. The emphasis is on practical skills, problem solving, and computational techniques. Topics covered range from equations and inequalities to functions and graphs, polynomial and rational functions, and exponentials and logarithms. Trigonometric functions and complex numbers are also considered. Comprised of 11 chapters, this book begins with a discussion on the fundamentals of algebra, each topic explained, illustrated, and accompanied by an ample set of exercises. The proper use of algebraic notation and practical manipulative skills such as factoring, using exponents and radicals, and simplifying rational expressions is highlighted, along with the most common mistakes in algebra. The reader is then introduced to the solution of linear, quadratic, and other types of equations and systems of equations, as well as the solution of inequalities. Subsequent chapters deal with the most basic functions: polynomial, rational, exponential, logarithm, and trigonometric. Trigonometry and the inverse trigonometric functions and identities are also presented. The book concludes with a review of progressions, permutations, combinations, and the binomial theorem. This monograph will be a useful resource for undergraduate

students of mathematics and algebra.

Elements of Trigonometry with Logarithmic and Other Tables Feb 29 2020

Trigonometry Feb 20 2022 Cynthia Young's 3rd Edition of Trigonometry focuses on revisions and additions including hundreds of new exercises, more opportunities to use technology, and themed modeling projects that help connect content to real-world issues. The text builds upon the previous two editions with more in-depth and enhanced coverage on ways to help overcome common learning barriers in trigonometry and build confidence for readers. The text features truly unique, strong pedagogy and as with the previous two issues, is written in a clear, single voice.

Trigonometry Jul 16 2021 Trigonometry, 4th Edition brings together all the elements that have allowed instructors and learners to successfully "bridge the gap" between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students' ability to do mathematics. Written in a clear voice that speaks to students and mirrors how instructors communicate in lecture, Young's hallmark pedagogy enables students to become independent, successful learners. Varied exercise types and modeling projects keep the learning fresh and motivating. Young continues her tradition of fostering a love for succeeding in mathematics by introducing inquiry-based learning projects in this edition, providing learners an opportunity to master the material with more freedom while reinforcing mathematical skills and intuition.

College Trigonometry Feb 08 2021 College Trigonometry covers the following topics: Right Triangle Trigonometry; Trigonometric Functional Value of any Angle; Laws of Sines and Cosines; Addition of Vectors; Trigonometry of Real Numbers; Graphs of Trigonometric Functions; Periodicity; Proving Trigonometric Identities; Solutions of Trigonometric Equations; complex numbers.

Topics in Trigonometry and Additional Exercises Jan 10 2021

103 Trigonometry Problems Jun 14 2021 * Problem-solving tactics and practical test-taking techniques provide in-depth enrichment and preparation for various math competitions * Comprehensive introduction to trigonometric functions, their relations and functional properties, and their applications in the Euclidean plane and solid geometry * A cogent problem-solving resource for advanced high school students, undergraduates, and mathematics teachers engaged in competition training

Solving Trig. Equations and Trig. Inequalities May 14 2021 This booklet also introduces an innovative approach to solve complex trig inequalities and systems of trig inequalities by using graphing calculators. The author's performances on trig subjects are incredible. With about 3 thousands answers to trig homework questions, he may have helped more than 10 millions of students who have searched into his posted answers on the website "Nghị N on Socratic.org" in Google Search.

Trigonometry Jan 22 2022 Includes solving trigonometric equations and inequalities; triangle trigonometry; basic trigonometric functions and identities; graphic approach to solving inequalities and systems of trigonometric inequalities; using graphing calculators.

Trigonometry Dec 21 2021 This college level trigonometry text may be different than most other trigonometry textbooks. In this book, the reader is expected to do more than read the book but is expected to study the material in the book by working out examples rather than just reading about them. So the book is not just about mathematical content (although it does contain important topics in trigonometry needed for further study in mathematics), but it is also about the process of learning and doing mathematics and is designed not to be just casually read but rather to be engaged. Recognizing that actively studying a mathematics book is often not easy, several features of the textbook have been designed to help students become more engaged as they study the material. Some of the features are: Beginning activities in each section that engage students with the material to be introduced, focus questions that help students stay focused on what is important in the section, progress checks that are short exercises or activities that replace the standard examples in most textbooks, a section summary, and appendices with answers for the progress checks and selected exercises.

Introduction to Algebra and Trigonometry Oct 26 2019 Introduction to Algebra and Trigonometry provides a complete and self-contained presentation of the fundamentals of algebra and trigonometry. This book describes an axiomatic development of the foundations of algebra, defining complex numbers that are used to find the roots of any quadratic equation. Advanced concepts involving complex numbers are also elaborated, including the roots of polynomials, functions and function notation, and computations with logarithms. This text also discusses trigonometry from a functional standpoint. The angles, triangles, and applications involving triangles are likewise treated. Other topics include analytic geometry, conic sections, and use of a coordinate system to prove theorems from plane, and matrix operations and inverses. This publication is valuable to students aiming to gain more knowledge of the fundamentals of mathematics.

Applied College Algebra and Trigonometry and Study Wizard Aug 24 2019 This readerfriendly book balances solid math instruction with realworld examples and applications

for various disciplines. It encourages independent problem solving and instills reader confidence with clearly illustrated concepts, procedure boxes that present a step-by-step approach to problem solving, and “verbal nudges”, similar to those used by teachers in the classroom, to help readers avoid common pitfalls and mistakes as well as reminding them of concepts they have already mastered. Solving Linear Equations and Inequalities. Factors and Fractions. Exponents and Radicals. Functions and Graphs. Quadratic Equations. Systems of Equations. Solving Higher-Degree Equations. Exponential and Logarithmic Functions. Right Angle Trigonometry. Trigonometric Functions of Any Angle. Vectors and Oblique Triangles. Solving Higher-Degree Equations. Graphs of the Trigonometric Functions. Trigonometric Equations and Identities. Complex Numbers. Analytic Geometry. Introduction to Statistics and Empirical Curve Fitting. Sequences, Series, and the Binomial Formula. For anyone interested in learning or brushing up on technical mathematics.

CK-12 Calculus Nov 19 2021 CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course.

Topics include: Limits, Derivatives, and Integration.

The Equations World Oct 07 2020 Equations are the lifeblood of mathematics, science, and technology, and this book examines equations of all kinds. With his masterful ability to convey the excitement and elegance of mathematics, author Boris Pritsker explores equations from the simplest to the most complex—their history, their charm, and their usefulness in solving problems. The Equations World bridges the fields of algebra, geometry, number theory, and trigonometry, solving more than 280 problems by employing a wide spectrum of techniques. The author demystifies the subject with efficient hints, tricks, and methods that reveal the fun and satisfaction of problem solving. He also demonstrates how equations can serve as important tools for expressing a problem's data, showing the ways in which they assist in fitting parts together to solve the whole puzzle. In addition, brief historical tours reveal the foundations of mathematical thought by tracing the ideas and approaches developed by mathematicians over the centuries. Both recreational mathematicians and ambitious students will find this book an ample source of enlightenment and enjoyment.

Algebra and Trigonometry Jul 28 2022 “The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs.”--Page 1.

Trigonometric Equations Oct 31 2022

Trigonometric Functions And Complex Numbers Oct 19 2021

Trigonometric Functions and Complex Numbers Jun 26 2022 Trigonometric Functions and Complex Numbers covers the following areas in the International Mathematical Olympiad (IMO) and other mathematical competitions. Trigonometric identity, graphs and properties of trigonometric equations, inverse trigonometric functions and trigonometric equations, solutions of triangles, trigonometric substitution and trigonometric inequality; The concept and operation of complex numbers, trigonometric form of a complex number, complex number and equation. The contents are essential for the IMO. A good help for students who want to improve in these areas. Request Inspection Copy

Cambridge 3 Unit Mathematics Year 12 Enhanced Version Sep 05 2020 Contains features including a large number of fully worked examples which demonstrate mathematical processes and encourage independent learning

Trigonometry Jul 04 2020 KEY BENEFIT: Ratti and McWaters have combined years of lecture notes and firsthand experience with students to bring professors a text series that teaches at the same level and in the style that they do. An extensive array of exercises and learning aids further complements your instruction in class and during office hours. KEY TOPICS: Trigonometric Functions; Right Triangle Trigonometry; Radian Measure and Circular Functions; Graphs of the Circular Functions; Trigonometric Identities; Inverse Functions and Trigonometric Equations; Applications of Trigonometric Functions; Vectors; Polar Coordinates and Complex Numbers MARKET: For all readers interested in trigonometry.

Trigonometry Workbook For Dummies Apr 12 2021 From angles to functions to identities - solve trig equations withease Got a grasp on the terms and concepts you need to know, but getlost halfway through a problem or worse yet, not know where tobegin? No fear - this hands-on-guide focuses on helping you solvethemany types of trigonometry equations you encounter in afocused, step-by-step manner. With just enough refresherexplanations before each set of problems, you'll sharpen yourskills and improve your performance. You'll see how to work withangles, circles, triangles, graphs, functions, the laws of sinesand cosines, and more! 100s of Problems! * Step-by-step answer sets clearly identify where you went wrong(or right) with a problem * Get the inside scoop on graphing trig functions * Know where to begin and how to solve the most commonequations * Use trig in practical applications with confidence

Trigonometry for JEE Advanced, 3E (Free Sample) Jun 22 2019 Trigonometry for JEE (Advanced), a Cengage Exam Crack Series® product, is designed to help aspiring engineers focus on the subject of mathematics from two standpoints: To develop their caliber, aptitude, and attitude for the engineering field and profession. To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level. Each book in this series approaches the subject in a very conceptual and coherent manner. While its illustrative, solved examples facilitate easy mastering of the concepts and their applications, an array of solved problems exposes the students to a variety of questions that they can expect in the examination. The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers.

Elements of Plane and Spherical Trigonometry Jul 24 2019

Handbook of Mathematical Functions Aug 05 2020 An extensive summary of mathematical functions that occur in physical and engineering problems

Trigonometry Workbook For Dummies Nov 07 2020 From angles to functions to identities - solve trig equations with ease Got a grasp on the terms and concepts you need to know, but get lost halfway through a problem or worse yet, not know where to begin? No fear - this hands-on-guide focuses on helping you solve the many types of trigonometry equations you encounter in a focused, step-by-step manner. With just enough refresher explanations before each set of problems, you'll sharpen your skills and improve your performance. You'll see how to work with angles, circles, triangles, graphs, functions, the laws of sines and cosines, and more! 100s of Problems! * Step-by-step answer sets clearly identify where you went wrong (or right) with a problem * Get the inside scoop on graphing trig functions * Know where to begin and how to solve the most common equations * Use trig in practical applications with confidence

Trigonometry Sep 17 2021 In a sense, trigonometry sits at the center of high school mathematics. It originates in the study of geometry when we investigate the ratios of sides in similar right triangles, or when we look at the relationship between a chord of a circle and its arc. It leads to a much deeper study of periodic functions, and of the so-called transcendental functions, which cannot be described using finite algebraic processes. It also has many applications to physics, astronomy, and other branches of science. It is a very old subject. Many of the geometric results that we now state in trigonometric terms were given a purely geometric exposition by Euclid. Ptolemy, an early astronomer, began to go beyond Euclid, using the geometry of the time to construct what we now call tables of values of trigonometric functions. Trigonometry is an important introduction to calculus, where one studies what mathematicians call analytic properties of functions. One of the goals of this book is to prepare you for a course in calculus by directing your attention away from particular values of a function to a study of the function as an object in itself. This way of thinking is useful not just in calculus, but in many mathematical situations. So trigonometry is a part of pre-calculus, and is related to other pre-calculus topics, such as exponential and logarithmic functions, and complex numbers.

Skills in Mathematics - Trigonometry for JEE Main and Advanced Apr 24 2022 1. 'Skill in Mathematics' series is prepared for JEE Main and Advanced papers 2. It is a highly recommended textbook to develop a strong grounding in Trigonometry 3. The book covers the entire syllabus into 4 chapters 4. Each chapter includes a wide range of questions that are asked in the examinations Good foundational grip is required in the Trigonometry, while you are preparing for JEE Mains & Advanced or any other engineering. Bringing up the series "Skills in Mathematics for JEE Main & Advanced for Trigonometry" that is carefully revised with the sessionwise theory and exercise; to help candidates to learn & tackle the mathematical problems. The book has 4 Chapters covering the whole syllabus for the JEE Mains and Advanced as prescribed. Each chapter is divided into sessions giving complete clarity to concepts. Apart from sessionwise theory, JEE Type examples and Chapter Exercise contain huge amount of questions that are provided in every chapter under Practice Part. Prepared under great expertise, it is a highly recommended textbook to develop a strong grounding in Algebra to perform best in JEE and various engineering entrances. TOC: Trigonometric Functions and Identities, Trigonometric Equations and Inequations, Properties and Solutions of Triangles, Inverse Trigonometric Functions.

Spherical Trigonometry, For The Use Of Colleges And Schools Sep 25 2019 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We

appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Final Exam Review Mar 31 2020 Final Exam Review, College Trigonometry (40 Lessons) covers the following topics: A note to the student in preparing for final exams; Review of Functions; Review of Geometry; Right Triangle Trigonometry; Angles of Elevation and Depression; Bearing; Linear Interpolation; Trigonometric Functional Value of any Angle; Trigonometric Functional Values of Quadrantal Angles; Trigonometry of Oblique Triangles; Laws of Sines and Cosines; Applications of Trigonometry to Vectors; Representation of Vectors; Addition (Sum, Resultant, or Composition) of Vectors; Trigonometry of Real Numbers; Radian Measure; Arc Length; Reference Number; Trigonometric Functional Values of Angles and of Real Numbers; Graphs of Trigonometric Functions; Periodicity of Trigonometric Functions; Inverse Trigonometric Functions; Operations Involving Inverse Trigonometric Functions; Graphs of Inverse Trigonometric Functions; Trigonometric Identities and Proving Trigonometric Identities; Solutions of Trigonometric Equations; and Measurements. Extra topics cover complex numbers and polar coordinate system.

The Fractional Trigonometry Nov 27 2019 Addresses the rapidly growing field of fractional calculus and provides simplified solutions for linear commensurate-order fractional differential equations The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science is the result of the authors' work in fractional calculus, and more particularly, in functions for the solutions of fractional differential equations, which is fostered in the behavior of generalized exponential functions. The authors discuss how fractional trigonometry plays a role analogous to the classical trigonometry for the fractional calculus by providing solutions to linear fractional differential equations. The book begins with an introductory chapter that offers insight into the fundamentals of fractional calculus, and topical coverage is then organized in two main parts. Part One develops the definitions and theories of fractional exponentials and fractional trigonometry. Part Two provides insight into various areas of potential application within the sciences. The fractional exponential function via the fundamental fractional differential equation, the generalized exponential function, and R-function relationships are discussed in addition to the fractional hyperboly, the R1-fractional trigonometry, the R2-fractional trigonometry, and the R3-trigonometric functions. The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science also: Presents fractional trigonometry as a tool for scientists and engineers and discusses how to apply fractional-order methods to the current toolbox of mathematical modelers Employs a mathematically clear presentation in an effort to make the topic broadly accessible Includes solutions to linear fractional differential equations and generously features graphical forms of functions to help readers visualize the presented concepts Provides effective and efficient methods to describe complex structures The Fractional Trigonometry: With Applications to Fractional Differential Equations and Science is an ideal reference for academic researchers, research engineers, research scientists, mathematicians, physicists, biologists, and chemists who need to apply new fractional calculus methods to a variety of disciplines. The book is also appropriate as a textbook for graduate- and PhD-level courses in fractional calculus. Carl F. Lorenzo is Distinguished Research Associate at the NASA Glenn Research Center in Cleveland, Ohio. His past positions include chief engineer of the Instrumentation and Controls Division and chief of the Advanced Controls Technology and Systems Dynamics branches at NASA. He is internationally recognized for his work in the development and application of the fractional calculus and fractional trigonometry. Tom T. Hartley, PhD, is Emeritus Professor in the Department of Electrical and Computer Engineering at The University of Akron. Dr Hartley is a recognized expert in fractional-order systems, and together with Carl Lorenzo, has solved fundamental problems in the area including Riemann's complementary-function initialization function problem. He received his PhD in Electrical Engineering from Vanderbilt University.

Trigonometry - Grades 10-12 Mar 24 2022 This easy-to-use workbook is full of stimulating activities that will give your students a solid introduction to trigonometry! A variety of puzzles and self-check formats will challenge students to think creatively as they work to build their trigonometric skills. Each page begins with a clear explanation of a featured trigonometric topic, providing extra review and reinforcement. A special assessment section is included at the end of the book to help students prepare for standardized tests.

Trigonometry For Dummies Aug 17 2021 A plain-English guide to the basics of trig Trigonometry deals with the relationship between the sides and angles of triangles... mostly right triangles. In practical use, trigonometry is a friend to astronomers who use triangulation to measure the distance between stars. Trig also has applications in fields as broad as financial analysis, music theory, biology, medical imaging, cryptology, game development, and seismology. From sines and cosines to logarithms, conic sections, and polynomials, this friendly guide takes the torture out of trigonometry, explaining basic concepts in plain English and offering lots of easy-to-grasp example problems. It also explains the "why" of trigonometry, using real-world examples that illustrate the value of trigonometry in a variety of careers. Tracks to a typical Trigonometry course at the high school or college level Packed with example trig problems From the author of Trigonometry Workbook For Dummies Trigonometry For Dummies is for any student who needs an introduction to, or better understanding of, high-school to college-level trigonometry.

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