

Trigonometric Identities Cheat Sheet

Quotient Identities

- $\tan(\theta) = \frac{\sin(\theta)}{\cos(\theta)}$
- $\cot(\theta) = \frac{\cos(\theta)}{\sin(\theta)}$

Reciprocal Identities

- $\sin(\theta) = \frac{1}{\csc(\theta)}$
- $\cos(\theta) = \frac{1}{\sec(\theta)}$
- $\tan(\theta) = \frac{1}{\cot(\theta)}$

Pythagorean Identities

- $\sin^2(\theta) + \cos^2(\theta) = 1$
- $1 + \tan^2(\theta) = \sec^2(\theta)$
- $1 + \cot^2(\theta) = \csc^2(\theta)$

Negative Angle Identities

- $\sin(-\theta) = -\sin(\theta)$
- $\cos(-\theta) = \cos(\theta)$
- $\tan(-\theta) = -\tan(\theta)$
- $\csc(-\theta) = -\csc(\theta)$

Co-function Identities

- $\sin(\theta) = \cos\left(\frac{\pi}{2} - \theta\right)$
- $\cos(\theta) = \sin\left(\frac{\pi}{2} - \theta\right)$
- $\tan(\theta) = \cot\left(\frac{\pi}{2} - \theta\right)$
- $\csc(\theta) = \sec\left(\frac{\pi}{2} - \theta\right)$
- $\sec(\theta) = \csc\left(\frac{\pi}{2} - \theta\right)$
- $\cot(\theta) = \tan\left(\frac{\pi}{2} - \theta\right)$

Double Angle Identities

- $\sin(2\theta) = 2\sin(\theta)\cos(\theta)$
- $\cos(2\theta) = \cos^2(\theta) - \sin^2(\theta)$
- $\cos(2\theta) = 2\cos^2(\theta) - 1$
- $\cos(2\theta) = 1 - 2\sin^2(\theta)$
- $\tan(2\theta) = \frac{2\tan(\theta)}{1 - \tan^2(\theta)}$

Supplement Angle Identities

- $\sin(\pi - \theta) = \sin(\theta)$
- $\cos(\pi - \theta) = -\cos(\theta)$
- $\tan(\pi - \theta) = -\tan(\theta)$
- $\csc(\pi - \theta) = \csc(\theta)$

Maple For Trigonometry

Minjie Lin



Maple For Trigonometry:

Maple for Trigonometry Richard Parker, 1997 Presenting the concepts of post secondary trigonometry this study is written from the perspective of a PC based interactive computer algebra system The advantage of using computer algebra is shown by solving problems graphically and numerically prior to **Maple in Mathematics Education and Research**

Robert M. Corless, Jürgen Gerhard, Ilias S. Kotsireas, 2021-07-19 This book constitutes refereed proceedings of the 4th Maple Conference MC 2020 held in Waterloo Ontario Canada in November 2020 The 25 revised full papers and 3 short papers were carefully reviewed and selected out of 75 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple Barycentric Calculus in Euclidean and Hyperbolic Geometry Abraham A. Ungar, 2010 The word barycentric is derived from the Greek word barys heavy and refers to center of gravity Barycentric calculus is a method of treating geometry by considering a point as the center of gravity of certain other points to which weights are ascribed Hence in particular barycentric calculus provides excellent insight into triangle centers This unique book on barycentric calculus in Euclidean and hyperbolic geometry provides an introduction to the fascinating and beautiful subject of novel triangle centers in hyperbolic geometry along with analogies they share with familiar triangle centers in Euclidean geometry As such the book uncovers magnificent unifying notions that Euclidean and hyperbolic triangle centers share In his earlier books the author adopted Cartesian coordinates trigonometry and vector algebra for use in hyperbolic geometry that is fully analogous to the common use of Cartesian coordinates trigonometry and vector algebra in Euclidean geometry As a result powerful tools that are commonly available in Euclidean geometry became available in hyperbolic geometry as well enabling one to explore hyperbolic geometry in novel ways In particular this new book establishes hyperbolic barycentric coordinates that are used to determine various hyperbolic triangle centers just as Euclidean barycentric coordinates are commonly used to determine various Euclidean triangle centers The hunt for Euclidean triangle centers is an old tradition in Euclidean geometry resulting in a repertoire of more than three thousand triangle centers that are known by their barycentric coordinate representations The aim of this book is to initiate a fully analogous hunt for hyperbolic triangle centers that will broaden the repertoire of hyperbolic triangle centers provided here **Trigonometry** Cynthia Y. Young, 2017-09-06 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 *Hyperbolic Triangle Centers* A.A. Ungar, 2010-06-18 After A Ungar had introduced vector algebra and Cartesian coordinates into hyperbolic geometry in his earlier books along with novel applications in Einstein's special theory of relativity the purpose of his new book is to introduce hyperbolic barycentric coordinates another important concept to embed Euclidean geometry into hyperbolic geometry It will be demonstrated that in full analogy to classical mechanics where barycentric coordinates are related to the Newtonian mass barycentric coordinates are related to the Einsteinian relativistic mass in hyperbolic geometry Contrary to general belief Einstein's relativistic mass hence meshes up extraordinarily well with Minkowski's four vector formalism of special relativity In Euclidean geometry barycentric coordinates can be used to determine various triangle centers While there are many known Euclidean triangle centers only few hyperbolic triangle centers are known and none of the known hyperbolic triangle centers has been determined analytically with respect to its hyperbolic triangle vertices In his recent research the author set the ground for investigating hyperbolic triangle centers via hyperbolic barycentric coordinates and one of the purposes of this book is to initiate a study of hyperbolic triangle centers in full analogy with the rich study of Euclidean triangle centers Owing to its novelty the book is aimed at a large audience it can be enjoyed equally by upper level undergraduates graduate students researchers and academics in geometry abstract algebra theoretical physics and astronomy For a fruitful reading of this book familiarity with Euclidean geometry is assumed Mathematical physicists and theoretical physicists are likely to enjoy the study of Einstein's special relativity in terms of its underlying hyperbolic geometry Geometers may enjoy the hunt for new hyperbolic triangle centers and finally astronomers may use hyperbolic barycentric coordinates in the velocity space of cosmology **The Fractional Trigonometry** Carl F. Lorenzo, Tom T. Hartley, 2016-11-14 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 hyperboletry 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

Algebra and Trigonometry Nicholas Faulkner, William L. Hosch, 2017-12-15 Readers learn how calculating and manipulating the unknown has been the enterprise of the field of algebra since its earliest inception in Babylon and ancient Egypt Trigonometry draws on principles presented in algebra and uses angle measurements to elaborate on geometric calculations Essential to further mathematical and scientific study both algebra and trigonometry provide crucial tools in managing variables and understanding the relationships between them This intriguing and enlightening volume chronicles their respective histories while addressing the curriculum requirements of both disciplines

A System of Geometry and Trigonometry Abel Flint, 1835 *Differential Geometry and Its Applications* John Oprea, 2024-07-01 Differential Geometry and Its Applications studies the differential geometry of surfaces with the goal of helping students make the transition from the compartmentalized courses in a standard university curriculum to a type of mathematics that is a unified whole It mixes geometry calculus linear algebra differential equations complex variables the calculus of variations and notions from the sciences That mix of ideas offers students the opportunity to visualize concepts through the use of computer algebra systems such as Maple Differential Geometry and Its Applications emphasizes that this visualization goes hand in hand with understanding the mathematics behind the computer construction The book is rich in results and exercises that form a continuous spectrum from those that depend on calculation to proofs that are quite abstract

Ordinary Differential Equations and Applications I: With Maple Examples, 2024-12-10 Ordinary Differential Equations and Applications I with Maple Examples blends the theory and practical applications of Ordinary Differential Equations ODEs

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