

Trigonometric Identities

Quotient Identities

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

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

Reciprocal Identities

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$$

Co-Function Identities

$$\cos \left[\frac{\pi}{2} - \theta \right] = \sin \theta$$

$$\sin \left[\frac{\pi}{2} - \theta \right] = \cos \theta$$

$$\cot \left[\frac{\pi}{2} - \theta \right] = \tan \theta$$

$$\tan \left[\frac{\pi}{2} - \theta \right] = \cot \theta$$

$$\sec \left[\frac{\pi}{2} - \theta \right] = \operatorname{cosec} \theta$$

$$\operatorname{cosec} \left[\frac{\pi}{2} - \theta \right] = \sec \theta$$

Even-Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\cos(-\theta) = \cos \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\cot(-\theta) = -\cot \theta$$

$$\sec(-\theta) = \sec \theta$$

$$\operatorname{cosec}(-\theta) = -\operatorname{cosec} \theta$$

Half-Angle Formulas

$$\sin \left[\frac{\theta}{2} \right] = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos \left[\frac{\theta}{2} \right] = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\begin{aligned} \tan \left[\frac{\theta}{2} \right] &= \frac{1 - \cos \theta}{\sin \theta} \\ &= \frac{\sin \theta}{1 + \cos \theta} \\ &= \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} \end{aligned}$$

Using Trigonometric Identities Test

Ron Larson



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Trig Or Treat: An Encyclopedia Of Trigonometric Identity Proofs (Tips) With Intellectually Challenging Games Adrian Ning Hong Yeo, 2007-10-24 This encyclopedia contains trigonometric identity proofs for some three hundred identities. The book is presented in the form of mathematical games for the reader's enjoyment and includes a concordance of trigonometric identities enabling easy reference. Trig or Treat is a must have for every student of trigonometry to find the proofs for trigonometric identities that may be set in class or in exams. Every teacher of trigonometry to have easy access to trigonometric identities of different levels of difficulty to set assignments for different levels of students. Every library to provide a ready resource for students. Every aficionado of Sudoku crossword puzzles jigsaw puzzles Tetris and other games who love an intellectual challenge.

Trigonometric Identities Masroor Mohajerani, 2020-10-12 Verifying Trigonometric identities is a useful technique when we want to convert a trigonometric expression to another form algebraically. You can use these techniques to simplify trigonometric expressions and to solve trigonometric equations.

Trigonometric Identities Marilyn Occhiogrosso, 2007-09-01 This easy to use packet is full of stimulating activities that will give your students a solid introduction to trigonometric identities. 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.

Trig Identities Practice Workbook with Answers Chris McMullen, 2020-11 This trigonometry workbook focuses on trig identities. The majority of the exercises let you derive a variety of trig identities by following similar examples. If you get stuck helpful hints in the back of the book help walk you through the solution. Other exercises include applications such as how to find the tangent of 15 degrees without a calculator or how to apply trig identities to solve equations. This book also serves as a handy list of numerous trig identities organized by topic. The answer to every problem can be found at the back of the book. The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students. He prepared this workbook of the Improve Your Math Fluency series to share his knowledge of trig identities.

A Guided Inquiry-Based Learning Module in Trigonometric Identities Ryan Bernido, 2020-05-05 This module provides lesson exemplars and learning materials in understanding the Trigonometric Identities. The approach is Inquiry Based Learning which uses scaffold activities and guide questions to let learners learn on their own with minimal guidance from the teacher. This module has two parts. First part is for lesson exemplars which can be used by teachers as guide to deliver lesson on Trigonometric Identities using Guided Inquiry Based Learning while part 2 is for learning materials which teachers can use as materials for the learners.

Some Sine and Cosine Identities Obtained from Pascal's Triangle Christopher Schwaner, Christopher White, 2012-04 Trigonometric identities were used to simplify expressions of trigonometric functions. Pascal's triangle is a triangular arrangement of binomial coefficients. Could it be possible to marry this two? Dr Christopher White and Dr Christopher Schwaner explored a new way of using Pascal's triangle.

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Larson, 1995 **I Hate Trig!** Jesse Moland Jr, 2009-08 This guide is a collection of concepts that are often missed or overlooked by students who are just beginning trigonometry It is not a magical cure all but a supplemental tool

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