

Trigonometry Cheat Sheet

Definitions of the Trig Functions

Right triangle definition

For this definition we assume that

$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ$$



$$\begin{aligned} \sin \theta &= \frac{\text{opposite}}{\text{hypotenuse}} & \csc \theta &= \frac{\text{hypotenuse}}{\text{opposite}} \\ \cos \theta &= \frac{\text{adjacent}}{\text{hypotenuse}} & \sec \theta &= \frac{\text{hypotenuse}}{\text{adjacent}} \\ \tan \theta &= \frac{\text{opposite}}{\text{adjacent}} & \cot \theta &= \frac{\text{adjacent}}{\text{opposite}} \end{aligned}$$

Unit circle definition

For this definition θ is any angle.



$$\begin{aligned} \sin \theta &= \frac{y}{r} = \frac{\text{opposite}}{r} & \csc \theta &= \frac{r}{\text{opposite}} \\ \cos \theta &= \frac{x}{r} = \frac{\text{adjacent}}{r} & \sec \theta &= \frac{r}{\text{adjacent}} \\ \tan \theta &= \frac{y}{x} = \frac{\text{opposite}}{\text{adjacent}} & \cot \theta &= \frac{\text{adjacent}}{\text{opposite}} \end{aligned}$$

Facts and Properties

Domain

The domain is all the values of θ that can be plugged into the functions.

$$\begin{aligned} \sin \theta &: \theta \text{ can be any angle} \\ \csc \theta &: \theta \text{ can be any angle} \\ \cos \theta &: \theta = \left(n + \frac{\pi}{2} \right) \pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \sec \theta &: \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \tan \theta &: \theta = \left(n + \frac{\pi}{2} \right) \pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \cot \theta &: \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots \end{aligned}$$

Range

The range is all possible values to get out of the functions.

$$\begin{aligned} -1 &\leq \sin \theta \leq 1 & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in [-\frac{\pi}{2}, \frac{\pi}{2}] \\ -1 &\leq \cos \theta \leq 1 & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in [0, \pi] \\ -\infty &\leq \tan \theta \leq \infty & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in \mathbb{R} \end{aligned}$$

Period

The period of a function is the number, T , such that $f(\theta + T) = f(\theta)$. So, θ is a fixed number and T is any angle we have the following periods.

$$\begin{aligned} \sin(\theta + T) &= \sin \theta & T &= 2\pi \\ \csc(\theta + T) &= \csc \theta & T &= 2\pi \\ \cos(\theta + T) &= \cos \theta & T &= 2\pi \\ \sec(\theta + T) &= \sec \theta & T &= 2\pi \\ \tan(\theta + T) &= \tan \theta & T &= \pi \\ \cot(\theta + T) &= \cot \theta & T &= \pi \end{aligned}$$

Trigonometric Identities

Pythagorean Identities

$$\begin{aligned} \sin^2 \theta + \cos^2 \theta &= 1 \\ \sec^2 \theta - \tan^2 \theta &= 1 \\ \csc^2 \theta - \cot^2 \theta &= 1 \end{aligned}$$

Even/Odd Formulas

$$\begin{aligned} \sin(-\theta) &= -\sin \theta & \cos(-\theta) &= \cos \theta \\ \tan(-\theta) &= -\tan \theta & \cot(-\theta) &= -\cot \theta \\ \sec(-\theta) &= \sec \theta & \csc(-\theta) &= -\csc \theta \end{aligned}$$

Double Angle Formulas

$$\begin{aligned} \sin(2\theta) &= 2\sin \theta \cos \theta & \cos(2\theta) &= \cos^2 \theta - \sin^2 \theta \\ \tan(2\theta) &= \frac{2\tan \theta}{1 - \tan^2 \theta} & \cot(2\theta) &= \frac{1 - \tan^2 \theta}{2\tan \theta} \end{aligned}$$

Triple Angle Formulas

$$\begin{aligned} \sin(3\theta) &= 3\sin \theta \cos^2 \theta - \sin^3 \theta \\ \cos(3\theta) &= \cos^3 \theta - 3\sin^2 \theta \cos \theta \\ \tan(3\theta) &= \frac{3\tan \theta - \tan^3 \theta}{1 - 3\tan^2 \theta} \end{aligned}$$

Degrees to Radians Formulas

$$\begin{aligned} \theta \text{ in degrees} &= \theta \times \frac{\pi}{180} \\ \theta \text{ in radians} &= \theta \times \frac{180}{\pi} \end{aligned}$$

Formulas and Identities

Sum Angle Formulas

$$\begin{aligned} \sin(\theta \pm \phi) &= \sin \theta \cos \phi \pm \cos \theta \sin \phi \\ \cos(\theta \pm \phi) &= \cos \theta \cos \phi \mp \sin \theta \sin \phi \end{aligned}$$

Sum and Difference Formulas

$$\begin{aligned} \sin(\theta \pm \phi) &= \sin \theta \cos \phi \pm \cos \theta \sin \phi \\ \cos(\theta \pm \phi) &= \cos \theta \cos \phi \mp \sin \theta \sin \phi \end{aligned}$$

Product to Sum Formulas

$$\begin{aligned} \sin \theta \sin \phi &= \frac{1}{2} [\cos(\theta - \phi) - \cos(\theta + \phi)] \\ \cos \theta \cos \phi &= \frac{1}{2} [\cos(\theta - \phi) + \cos(\theta + \phi)] \\ \sin \theta \cos \phi &= \frac{1}{2} [\sin(\theta + \phi) + \sin(\theta - \phi)] \\ \cos \theta \sin \phi &= \frac{1}{2} [\sin(\theta + \phi) - \sin(\theta - \phi)] \end{aligned}$$

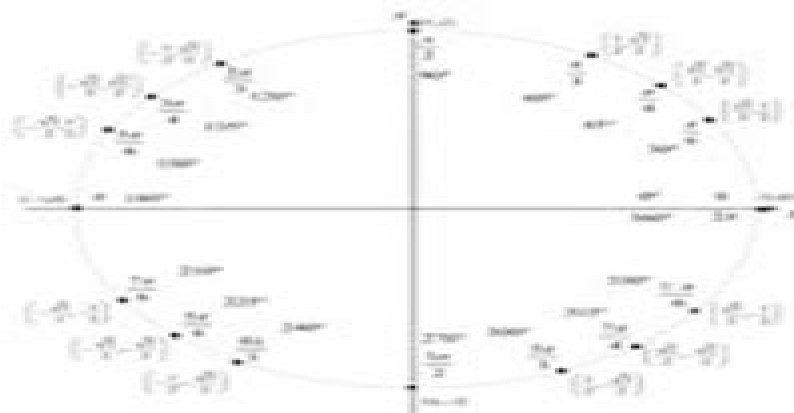
Sum to Product Formulas

$$\begin{aligned} \sin \theta + \sin \phi &= 2 \sin \left(\frac{\theta + \phi}{2} \right) \cos \left(\frac{\theta - \phi}{2} \right) \\ \sin \theta - \sin \phi &= 2 \cos \left(\frac{\theta + \phi}{2} \right) \sin \left(\frac{\theta - \phi}{2} \right) \\ \cos \theta + \cos \phi &= 2 \cos \left(\frac{\theta + \phi}{2} \right) \cos \left(\frac{\theta - \phi}{2} \right) \\ \cos \theta - \cos \phi &= -2 \sin \left(\frac{\theta + \phi}{2} \right) \sin \left(\frac{\theta - \phi}{2} \right) \end{aligned}$$

Co-function Formulas

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

Unit Circle



For any ordered pair on the unit circle $(x, y) = (\cos \theta, \sin \theta)$

Examples

$$\sin \left(\frac{5\pi}{6} \right) = \frac{1}{2} \quad \cos \left(\frac{5\pi}{6} \right) = -\frac{\sqrt{3}}{2}$$

Reverse Trig Functions

Definition

$$\begin{aligned} y = \sin^{-1} x & \text{ is equivalent to } x = \sin y \\ y = \cos^{-1} x & \text{ is equivalent to } x = \cos y \\ y = \tan^{-1} x & \text{ is equivalent to } x = \tan y \end{aligned}$$

Domain and Range

$$\begin{aligned} y = \sin^{-1} x & \quad \text{Domain: } -1 \leq x \leq 1 & \quad \text{Range: } -\frac{\pi}{2} \leq y \leq \frac{\pi}{2} \\ y = \cos^{-1} x & \quad \text{Domain: } -1 \leq x \leq 1 & \quad \text{Range: } 0 \leq y \leq \pi \\ y = \tan^{-1} x & \quad \text{Domain: } -\infty < x < \infty & \quad \text{Range: } -\frac{\pi}{2} < y < \frac{\pi}{2} \end{aligned}$$

General Properties

$$\begin{aligned} \sin(\sin^{-1} x) &= x & \sin^{-1}(\sin \theta) &= \theta \\ \cos(\cos^{-1} x) &= x & \cos^{-1}(\cos \theta) &= \theta \\ \tan(\tan^{-1} x) &= x & \tan^{-1}(\tan \theta) &= \theta \end{aligned}$$

Adjoint Functions

$$\begin{aligned} \sin^{-1} x &= \arcsin x \\ \cos^{-1} x &= \arccos x \\ \tan^{-1} x &= \arctan x \end{aligned}$$

Law of Sines, Cosines and Tangents



Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Law of Cosines

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos A \\ b^2 &= a^2 + c^2 - 2ac \cos B \\ c^2 &= a^2 + b^2 - 2ab \cos C \end{aligned}$$

Mollweide's Formulas

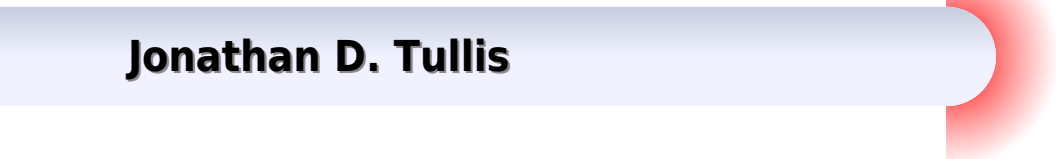
$$\frac{a-b}{c} = \frac{\sin \left(\frac{A-B}{2} \right)}{\cos \left(\frac{C}{2} \right)}$$

Law of Tangents

$$\begin{aligned} \frac{a-b}{a+b} &= \frac{\tan \left(\frac{A-B}{2} \right)}{\tan \left(\frac{A+B}{2} \right)} \\ \frac{b-c}{b+c} &= \frac{\tan \left(\frac{B-C}{2} \right)}{\tan \left(\frac{B+C}{2} \right)} \\ \frac{c-a}{c+a} &= \frac{\tan \left(\frac{C-A}{2} \right)}{\tan \left(\frac{C+A}{2} \right)} \end{aligned}$$

Trigonometric Functions Cheat Sheet

Jonathan D. Tullis



Trigonometric Functions Cheat Sheet:

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An Occupational Therapist's Guide to Home Modification Practice Elizabeth Ainsworth, Desleigh de Jonge, 2024-06-01

Older people and people with a disability have a right to be included in all aspects of home and community life, and yet environmental barriers continue to exist in the built environment. There are concerns about how well homes can support older people and people with a disability over time as their needs change. Occupational therapists are well suited to determining the most appropriate home modification solutions to address environmental barriers. They possess the knowledge and skills necessary to evaluate people's current and future needs in the context of the nature and use of the environment and can work collaboratively with design and construction professionals to develop solutions. To be comprehensive and effective in their approach, occupational therapists need to understand not only the individual's requirements but also the ethical and legal contexts for practice, the technical aspects of the built environment, the relevance and intent of access standards and design approaches, and the application of a range of products and finishes.

An Occupational Therapist's Guide to Home Modification Practice, Second Edition by Elizabeth Ainsworth and Desleigh de Jonge and their team of expert contributors provides comprehensive information to inform occupational therapists about current practice and research. This includes the authors using a transactional approach to examine the person-occupation-environment interaction and providing occupational therapists with a detailed understanding of the various dimensions of the home environment that can impact on client's home modification decisions. New material has been provided relating to research and practice issues such as an overview of the latest home modification outcome research findings as documented in literature, an update on outcome evaluation, new research information about the dimensions of the home impacting on decision making, additional information on grabrail and ramp prescription, and the inclusion of new case studies illustrating minor and major modification solutions for clients who present with diverse needs. In the Second Edition, you'll find a detailed understanding of aspects of the home environment that impact home modification decisions. A review of legislative

environment and funding systems that facilitate service delivery An overview of home modification services as well as future trends A range of comprehensive case studies illustrated by photographs Additional theory to inform knowledge and skill development that can be used in home modification practice worldwide Included with the text are online supplemental materials for faculty use in the classroom An Occupational Therapist's Guide to Home Modification Practice Second Edition provides a range of resources and tools and it can be used as a teaching aid to support students interns and novice therapists or as a manual for reflection and practice for more experienced home modification practitioners ACE the ACT® Book + Online Kelly Roell,2017-06-13 ACE the ACT Book Online Practice Tests Completely Up to date Authored by America's top ACT expert REA's innovative test prep gives high school students crucial test taking strategies that can help them raise their score and get into the college of their choice Four weekly study sessions cover the critical information students need to ace the English math science and reading portions of the exam An optional fifth week completely covers the enhanced ACT Writing Test To round out students preparation practice tests pinpoint strengths and weaknesses and give students a realistic taste of the ACT test experience Kelly C Roell M A is an author certified teacher lecturer and longtime test prep guru She taught high school English and Reading for years in one of the nation's top ranked school districts Hillsborough County Florida instructing students in the many facets of local state and national testing Kelly ran an SAT test preparation course for advanced high school students guiding them to focus their potential and raise their scores Kelly has written daily test tips and articles for Scholastic.com and MSN.com About REA's prep Tips to boost your score on the Enhanced Writing Test Practice tests build your test day confidence Interdisciplinary and International Perspectives on 3D Printing in Education Santos, Ieda M.,Ali, Nagla,Areepattamannil, Shaljan,2018-11-23 Although 3D printing technologies are still a rarity in many classrooms and other educational settings their far reaching applications across a wide range of subjects make them a desirable instructional aid Effective implementation of these technologies can engage learners through project based learning and exploration of objects Interdisciplinary and International Perspectives on 3D Printing in Education is a collection of advanced research that facilitates discussions on interdisciplinary fields and international perspectives from kindergarten to higher education to inform the uses of 3D printing in education from diverse and broad perspectives Covering topics such as computer aided software learning theories and educational policy this book is ideally designed for educators practitioners instructional designers and researchers **The Ultimate Cheat Sheets for Math and Physics!** Jonathan Tullis,The Wesolvethem Team,2018-07-30 All the equations and formulas a college student needs isolated in one clear and easy to navigate book Trigonometry Simplified Lee Roby,2023-05-29 This book is the easiest Trigonometry book to learn from It simplifies trigonometry and comes with a cheat sheet This trig book uses everything you'll need to know for the ACT If you don't ace your first trigonometry test I'll give you your money back Webster's Third International Dictionary of the English Language, Unabridged ,1961 *Trigonometry Reference Sheet* Jonathan D. Tullis,2016-04-19 All

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