

Trig Cheat Sheet

Definition of the Trig Functions

Right triangle definition

For this definition we assume that

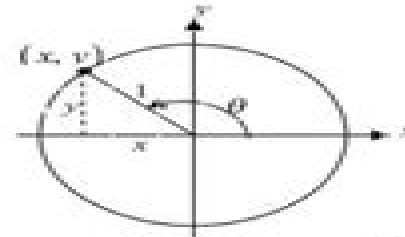
$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ.$$



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

Unit circle definition

For this definition θ is any angle.



$$\begin{aligned} \sin \theta &= \frac{y}{1} = y & \csc \theta &= \frac{1}{y} \\ \cos \theta &= \frac{x}{1} = x & \sec \theta &= \frac{1}{x} \\ \tan \theta &= \frac{y}{x} & \cot \theta &= \frac{x}{y} \end{aligned}$$

Facts and Properties

Domain

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

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

Range

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

$$\begin{aligned} -1 \leq \sin \theta \leq 1 & \quad \csc \theta \geq 1 \text{ and } \csc \theta \leq -1 \\ -1 \leq \cos \theta \leq 1 & \quad \sec \theta \geq 1 \text{ and } \sec \theta \leq -1 \\ -\infty < \tan \theta < \infty & \quad -\infty < \cot \theta < \infty \end{aligned}$$

Period

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

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

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Standards-based School Mathematics Curricula Sharon L. Senk, Denisse R. Thompson, 2020-07-24 The Curriculum and Evaluation Standards for School Mathematics published by the National Council of Teachers of Mathematics in 1989 set forth a broad vision of mathematical content and pedagogy for grades K 12 in the United States These Standards prompted the development of Standards based mathematics curricula What features characterize Standards based curricula How well do such curricula work To answer these questions the editors invited researchers who had investigated the implementation of 12 different Standards based mathematics curricula to describe the effects of these curricula on students learning and achievement and to provide evidence for any claims they made In particular authors were asked to identify content on which performance of students using Standards based materials differed from that of students using more traditional materials and content on which performance of these two groups of students was virtually identical Additionally four scholars not involved with the development of any of the materials were invited to write critical commentaries on the work reported in the other chapters Section I of Standards Based School Mathematics Curricula provides a historical background to place the current curriculum reform efforts in perspective a summary of recent recommendations to reform school mathematics and a discussion of issues that arise when conducting research on student outcomes Sections II III and IV are devoted to research on mathematics curriculum projects for elementary middle and high schools respectively The final section is a commentary by Jeremy Kilpatrick Regents Professor of Mathematics Education at the University of Georgia on the research reported in this book It provides a historical perspective on the use of research to guide mathematics curriculum reform in schools and makes additional recommendations for further research In addition to the references provided at the end of each chapter other references about the Standards based curriculum projects are provided at the end of the book This volume is a valuable

resource for all participants in discussions about school mathematics curricula including professors and graduate students interested in mathematics education curriculum development program evaluation or the history of education educational policy makers teachers parents principals and other school administrators The editors hope that the large body of empirical evidence and the thoughtful discussion of educational values found in this book will enable readers to engage in informed civil discourse about the goals and methods of school mathematics curricula and related research **New Formulas for**

America's Workforce National Science Foundation (NSF),2003 This book collects together approximately 200 descriptions and summaries of a wide range of projects carried out over nearly 10 years of NSF funded Gender Diversity in STEM Education programs that were set up to address the problems of women and girls in science and technology A good source of ideas See also the website *The Cumulative Book Index* ,1998 A world list of books in the English language

Scientific and Technical Books and Serials in Print ,1984 *The American Mathematical Monthly* ,1983 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 *AAAS Science Book List, 1978-1986* Kathryn Wolff,Susan M. O'Connell,Valerie J. Montenegro,1986 A selected and annotated list of science and mathematics books which supplements the AAAS science book list 3rd ed 1970 and the AAAS science book list supplement 1978 *Paperbound Books in Print* ,1970 **Microtimes** ,1989 **El-Hi Textbooks and Serials in Print, 1995** R R Bowker Publishing,1995-02

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