

# Pipe Fitter's Math Guide

## Quick Reference

$$a^2 + b^2 = c^2$$

$$\sqrt{a^2 + b^2} = c$$

$$\sqrt{c^2 - a^2} = b \text{ or } \sqrt{c^2 - b^2} = a$$

Sine $\theta$	=	$\frac{\text{Opposite Side}}{\text{Hypotenuse}}$	Cosecant $\theta$	=	$\frac{\text{Hypotenuse}}{\text{Opposite Side}}$
Cosine $\theta$	=	$\frac{\text{Adjacent Side}}{\text{Hypotenuse}}$	Secant $\theta$	=	$\frac{\text{Hypotenuse}}{\text{Adjacent Side}}$
Tangent $\theta$	=	$\frac{\text{Opposite Side}}{\text{Adjacent Side}}$	Cotangent $\theta$	=	$\frac{\text{Adjacent Side}}{\text{Opposite Side}}$

Sine $\theta$	=	$\frac{1}{\text{Cosecant } \theta}$	Cosecant $\theta$	=	$\frac{1}{\text{Sine } \theta}$
Cosine $\theta$	=	$\frac{1}{\text{Secant } \theta}$	Secant $\theta$	=	$\frac{1}{\text{Cosine } \theta}$
Tangent $\theta$	=	$\frac{1}{\text{Cotangent } \theta}$	Cotangent $\theta$	=	$\frac{1}{\text{Tangent } \theta}$

Hypotenuse	=	Cosecant $\theta$	x	Opposite side
Hypotenuse	=	Secant $\theta$	x	Adjacent side
Opposite side	=	Tangent $\theta$	x	Adjacent side
Opposite side	=	Sine $\theta$	x	Hypotenuse
Adjacent side	=	Cosine $\theta$	x	Hypotenuse
Adjacent side	=	Cotangent $\theta$	x	Opposite side

$$\text{Pi } (\pi) = 3.1416$$

$$\text{Circumference} = \pi d$$

$$\text{Circumference} = 2\pi r$$

$$\text{Area of circle} = \pi r^2$$

$$\text{Volume of cylinder} = \pi r^2 \times \text{length}$$

$$\text{Radians} = \theta \times \frac{\pi}{180}$$

$$\text{Arc length} = \text{radians} \times \text{radius}$$

$$\text{Chord length} = \sin \frac{\theta}{2} \times \text{radius} \times 2 \text{ or } \text{Chord length} = \sin \frac{\theta}{2} \times \text{diameter}$$

$$\text{Take out} = \tan \frac{\theta}{2} \times \text{radius of elbow}$$

$$\sqrt{2} = 1.4142$$

# Pipefitter Math Guide

**Margaret Hamilton, Johnny E. Hamilton**

## **Pipefitter Math Guide:**

**Pipe Fitter's Math Guide** Johnny E. Hamilton,1989 Most pipe fitters are well trained in the practical aspects of the job but lack the needed math skills The only way to be secure in your work is to increase your skill level in math to the point that you have the tools necessary to do your job

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Part 2 will consist of two page spreads for about 90 training and education programs so that the reader can refer to them for more information

**Bibliographic Guide to Technology** New York Public Library. Research Libraries, 1978

*Guide for Occupational Exploration* J. Michael Farr, LaVerne Ludden, Laurence Shatkin, 2001 Contains descriptions of approximately one thousand jobs grouped in fourteen major interest areas with information on required skills and knowledge education and training

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