

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

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

Hypotenuse	=	Cosecant θ	x	Opposite side
Hypotenuse	=	Secant θ	x	Adjacent side
Opposite side	=	Tangent θ	x	Adjacent side
Opposite side	=	Sine θ	x	Hypotenuse
Adjacent side	=	Cosine θ	x	Hypotenuse
Adjacent side	=	Cotangent θ	x	Opposite side

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

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

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

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

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

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

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

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

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

$$\sqrt{2} = 1.4142$$

Pipe Fitters Math Guide

Joacim Rocklöv



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