

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 Fitting Math Questions

Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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two substances c_a and c_b the mole fractions of each would be written as

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water $n_a = 54 \text{ g} / 18 \text{ g mol}^{-1} = 3 \text{ mol}$ total number of moles $n_a + n_b = 0.5 + 3 = 3.5 \text{ mol}$ mole fraction of solute ethyl alcohol $x_b = n_b / n_a + n_b$

$= 0.5 / 3.5 = 0.1429$

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40 g of H_2O molar mass of H_2O is 18 gm mole and molar mass of CH_3OH is 32 gm mole solution moles of CH_3OH $4.5 / 32 = 0.14$

mole moles of H_2O 40.1822 moles therefore according to the equation

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time the total pressure $p_a \times \text{mole fraction}_a = \text{mole}_a / \text{moles total}$ $\sum n_i$ all x_i n_i mole fraction of substance
a is often denoted by x_a and

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12.4355 154 g/mol 1

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g of water calculate the molarity and molality of the solution given $n = 14$ $h = 1$ $c = 12$ $o = 16$ given mass of solute urea 11.11 g mass
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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0.2885 its mole percent would be 28.85

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