

TRIGONOMETRY

Right triangle definition

For this definition we assume that

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



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

Double Angle Formulas Half Angle Formulas

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

Product to Sum Formulas

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

Sum and Difference Formulas

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\tan \alpha \pm \tan \beta}{1 \mp \tan \alpha \tan \beta}$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

Inverse Trig Functions

$$y = \sin^{-1} x \text{ is equivalent to } x = \sin y$$

$$y = \cos^{-1} x \text{ is equivalent to } x = \cos y$$

$$y = \tan^{-1} x \text{ is equivalent to } x = \tan y$$

Law of Sines

$$\frac{\sin \alpha}{a} = \frac{\sin \beta}{b} = \frac{\sin \gamma}{c}$$

Law of Cosines

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

ALGEBRA

Arithmetic Operations

$$ab + ac = a(b + c) \qquad a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\left(\frac{a}{b}\right) \cdot \frac{a}{bc} = \frac{a}{b} \qquad \left(\frac{a}{b}\right) \cdot \frac{ac}{b} = \frac{ac}{b}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd} \qquad \frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a-b}{c-d} = \frac{b-a}{d-c} \qquad \frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\frac{ab + ac}{a} = b + c, \quad a \neq 0 \qquad \left(\frac{a}{b}\right) \cdot \left(\frac{c}{d}\right) = \frac{ac}{bd}$$

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United States. Office of Education



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