

Trigonometric Identities

The Six Trigonometric Functions

$$\begin{array}{ll} \sin \theta = \frac{\text{opp}}{\text{hyp}} = \frac{y}{r} & \csc \theta = \frac{\text{hyp}}{\text{opp}} = \frac{r}{y} \\ \cos \theta = \frac{\text{adj}}{\text{hyp}} = \frac{x}{r} & \sec \theta = \frac{\text{hyp}}{\text{adj}} = \frac{r}{x} \\ \tan \theta = \frac{\text{opp}}{\text{adj}} = \frac{y}{x} & \cot \theta = \frac{\text{adj}}{\text{opp}} = \frac{x}{y} \end{array}$$

Pythagorean Identities

$$\begin{array}{ll} \sin^2 \theta + \cos^2 \theta = 1 & \sec^2 \theta = 1 + \tan^2 \theta \\ \cos^2 \theta + \tan^2 \theta = 1 & \csc^2 \theta = 1 + \cot^2 \theta \end{array}$$

Sum or Difference of Two Angles

$$\begin{array}{l} \sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta \\ \cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta \\ \tan(\alpha \pm \beta) = \frac{\sin(\alpha \pm \beta)}{\cos(\alpha \pm \beta)} \end{array}$$

Double-Angle Formulas

$$\begin{array}{ll} \sin 2\theta = 2 \sin \theta \cos \theta & \cos 2\theta = \cos^2 \theta - \sin^2 \theta \\ \cos 2\theta = 2 \cos^2 \theta - 1 & \sin 2\theta = 2 \sin \theta \cos \theta \\ \cos 2\theta = 1 - 2 \sin^2 \theta & \end{array}$$

Half-Angle Formulas

$$\begin{array}{ll} \sin \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{2}} & \cos \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{2}} \\ \tan \frac{\theta}{2} = \frac{1 - \cos \theta}{\sin \theta} & \cot \frac{\theta}{2} = \frac{\cos \theta + 1}{\sin \theta} \\ \sec \frac{\theta}{2} = \pm \sqrt{\frac{2}{1 + \cos \theta}} & \csc \frac{\theta}{2} = \pm \sqrt{\frac{2}{1 - \cos \theta}} \\ \tan \frac{\theta}{2} = \frac{\sin \theta}{1 + \cos \theta} & \cot \frac{\theta}{2} = \frac{\cos \theta + 1}{\sin \theta} \\ \sec \frac{\theta}{2} = \frac{1 + \cos \theta}{\sin \theta} & \csc \frac{\theta}{2} = \frac{\sin \theta}{1 - \cos \theta} \end{array}$$

Compound Identities

$$\begin{array}{ll} \sin^2 \theta = \frac{1 - \cos 2\theta}{2} & \cos^2 \theta = \frac{1 + \cos 2\theta}{2} \\ \sin^2 \theta = \frac{1 - \cos 2\theta}{2} & \cos^2 \theta = \frac{1 + \cos 2\theta}{2} \\ \sin^2 \theta = \frac{1 - \cos 2\theta}{2} & \cos^2 \theta = \frac{1 + \cos 2\theta}{2} \end{array}$$

Sum of Sines

$$\frac{\sin \alpha + \sin \beta}{2} = \frac{\sin \frac{\alpha + \beta}{2} \cos \frac{\alpha - \beta}{2}}$$

Reciprocal Identities

$$\begin{array}{ll} \sin \theta = \frac{1}{\csc \theta} & \cos \theta = \frac{1}{\sec \theta} \\ \tan \theta = \frac{\sin \theta}{\cos \theta} & \cot \theta = \frac{\cos \theta}{\sin \theta} \\ \sec \theta = \frac{1}{\cos \theta} & \csc \theta = \frac{1}{\sin \theta} \end{array}$$

Quotient Identities

$$\begin{array}{ll} \tan \theta = \frac{\sin \theta}{\cos \theta} & \cot \theta = \frac{\cos \theta}{\sin \theta} \end{array}$$

Product-to-Sum Formulas

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

Sum-to-Product Formulas

$$\begin{array}{l} \sin \alpha + \sin \beta = 2 \sin \left(\frac{\alpha + \beta}{2} \right) \cos \left(\frac{\alpha - \beta}{2} \right) \\ \sin \alpha - \sin \beta = 2 \cos \left(\frac{\alpha + \beta}{2} \right) \sin \left(\frac{\alpha - \beta}{2} \right) \\ \cos \alpha + \cos \beta = 2 \cos \left(\frac{\alpha + \beta}{2} \right) \cos \left(\frac{\alpha - \beta}{2} \right) \\ \cos \alpha - \cos \beta = -2 \sin \left(\frac{\alpha + \beta}{2} \right) \sin \left(\frac{\alpha - \beta}{2} \right) \end{array}$$

Substitution Formulas

$$\begin{array}{ll} \sin \left(\frac{\pi}{2} - \theta \right) = \cos \theta & \cos \left(\frac{\pi}{2} - \theta \right) = \sin \theta \\ \sin \left(\frac{\pi}{2} + \theta \right) = \cos \theta & \cos \left(\frac{\pi}{2} + \theta \right) = -\sin \theta \\ \sin \left(\frac{3\pi}{2} - \theta \right) = -\cos \theta & \cos \left(\frac{3\pi}{2} - \theta \right) = \sin \theta \end{array}$$

Sum-Over-Substitution

$$\begin{array}{ll} \sin(\theta + \pi) = -\sin \theta & \cos(\theta + \pi) = -\cos \theta \\ \sin(\theta - \pi) = -\sin \theta & \cos(\theta - \pi) = -\cos \theta \\ \sin(\theta + 2\pi) = \sin \theta & \cos(\theta + 2\pi) = \cos \theta \end{array}$$

Identities

$$\begin{array}{ll} \sin \theta = \pm \sqrt{1 - \cos^2 \theta} & \cos \theta = \pm \sqrt{1 - \sin^2 \theta} \\ \tan \theta = \pm \frac{\sin \theta}{\cos \theta} & \cot \theta = \pm \frac{\cos \theta}{\sin \theta} \\ \sec \theta = \pm \frac{1}{\cos \theta} & \csc \theta = \pm \frac{1}{\sin \theta} \end{array}$$

Sum of Cosines

$$\frac{\cos \alpha + \cos \beta}{2} = \frac{\cos \frac{\alpha + \beta}{2} \cos \frac{\alpha - \beta}{2}}$$

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Mark Dugopolski



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