Trigonometry Function Identities

Quotient Identities

$$tan\theta = \frac{sin\theta}{cos\theta}$$
 $cot\theta = \frac{cos\theta}{sin\theta}$

Pythagorean Identities

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

 $\sec^2\theta - \tan^2\theta = 1$
 $\csc^2\theta - \cot^2\theta = 1$

Cofunction Identities

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos\theta \qquad \cos\left(\frac{\pi}{2} - \theta\right) = \sin\theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta \qquad \cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta \qquad \sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$$

$$\frac{\pi}{2} \text{ radians} = 90^{\circ}$$

Double Angle Identities

$$sin(2\theta) = 2 sin\theta cos\theta$$

$$cos(2\theta) = cos^2\theta - sin^2\theta$$

$$cos(2\theta) = 2 cos^2\theta - 1$$

$$cos(2\theta) = 1 - 2 sin^2\theta$$

$$tan(2\theta) = \frac{2 tan\theta}{1 - tan^2\theta}$$

Sum to Product of Two Angles

$$\begin{aligned} &\sin\theta + \sin\varphi = 2\sin\left(\frac{\theta + \varphi}{2}\right)\cos\left(\frac{\theta - \varphi}{2}\right) \\ &\sin\theta - \sin\varphi = 2\cos\left(\frac{\theta + \varphi}{2}\right)\sin\left(\frac{\theta - \varphi}{2}\right) \\ &\cos\theta + \cos\varphi = 2\cos\left(\frac{\theta + \varphi}{2}\right)\cos\left(\frac{\theta - \varphi}{2}\right) \\ &\cos\theta - \cos\varphi = -2\sin\left(\frac{\theta + \varphi}{2}\right)\sin\left(\frac{\theta - \varphi}{2}\right) \end{aligned}$$

Reciprocal Indentities

$$\sin\theta = \frac{1}{\csc\theta}$$
 $\csc\theta = \frac{1}{\sin\theta}$
 $\cos\theta = \frac{1}{\sec\theta}$ $\sec\theta = \frac{1}{\cos\theta}$
 $\tan\theta = \frac{1}{\cot\theta}$ $\cot\theta = \frac{1}{\tan\theta}$

Even/Odd Indentities

$$sin(-\theta) = -sin\theta$$
 $cos(-\theta) = cos\theta$
 $tan(-\theta) = -tan\theta$ $cot(-\theta) = -cot\theta$
 $csc(-\theta) = -csc\theta$ $sec(-\theta) = sec\theta$

Sum/Difference Indentities

$$sin(\theta \pm \phi) = sin\theta \cos\phi \pm \cos\theta \sin\phi$$

$$\cos(\theta \pm \phi) = \cos\theta \cos\phi \mp \sin\theta \sin\phi$$

$$tan(\theta \pm \phi) = \frac{\tan\theta \pm \tan\phi}{1 \mp \tan\theta \tan\phi}$$

Half Angle Indentities

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

Product to Sum of Two Angles

$$\sin\theta \sin\phi = \frac{[\cos(\theta - \phi) - \cos(\theta + \phi)]}{2}$$

$$\cos\theta \cos\phi = \frac{[\cos(\theta - \phi) + \cos(\theta + \phi)]}{2}$$

$$\sin\theta \cos\phi = \frac{[\sin(\theta + \phi) + \sin(\theta - \phi)]}{2}$$

$$\cos\theta \sin\phi = \frac{[\sin(\theta + \phi) + \sin(\theta - \phi)]}{2}$$

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