Trigonometric Identities

Quotient Identities

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

Reciprocal Identities

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

Pythagorean Identities

$$\sin^2\theta + \cos^2\theta = 1$$
$$\tan^2\theta + 1 = \sec^2\theta$$
$$1 + \cot^2\theta = \csc^2\theta$$

Sum Identities
Addition Formulas

$$\sin(a+b) = \sin a\cos b + \cos a\sin b$$
$$\cos(a+b) = \cos a\cos b - \sin a\sin b$$
$$\tan(a+b) = \frac{\tan a + \tan b}{1 - \tan a\tan b}$$

Difference Identities
Subtraction Formulas

$$\sin(a-b) = \sin a\cos b - \cos a\sin b$$
$$\cos(a-b) = \cos a\cos b + \sin a\sin b$$
$$\tan(a-b) = \frac{\tan a - \tan b}{1 + \tan a\tan b}$$

Double Angle Formulas

$$\sin 2a = 2\sin a\cos a$$
$$\cos 2a = \cos^2 a - \sin^2 a$$
$$= 2\cos^2 a - 1$$
$$= 1 - 2\sin^2 a$$
$$\tan 2a = \frac{2\tan a}{1 - \tan^2 a}$$

Co-function Identities

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin\theta$$
$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos\theta$$
$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$$
$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta$$
$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta$$
$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$$

Even-Odd Identities

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

Half-Angle Formulas

$$\sin\left(\frac{\theta}{2}\right) = \pm\sqrt{\frac{1-\cos\theta}{2}}$$
$$\cos\left(\frac{\theta}{2}\right) = \pm\sqrt{\frac{1+\cos\theta}{2}}$$
$$\tan\left(\frac{\theta}{2}\right) = \frac{1-\cos\theta}{\sin\theta}$$
$$= \frac{\sin\theta}{1+\cos\theta}$$
$$= \pm\sqrt{\frac{1-\cos\theta}{1+\cos\theta}}$$

Sum-to-Product Formulas

$$\sin a + \sin b = 2\sin\left(\frac{a+b}{2}\right)\cos\left(\frac{a-b}{2}\right)$$
$$\sin a - \sin b = 2\sin\left(\frac{a-b}{2}\right)\cos\left(\frac{a+b}{2}\right)$$
$$\cos a + \cos b = 2\cos\left(\frac{a+b}{2}\right)\cos\left(\frac{a-b}{2}\right)$$
$$\cos a - \cos b = -2\sin\left(\frac{a+b}{2}\right)\sin\left(\frac{a-b}{2}\right)$$

Product-to-Sum Formulas

$$\sin a\sin b = \frac{1}{2}[\cos(a-b) - \cos(a+b)]$$
$$\cos a\cos b = \frac{1}{2}[\cos(a-b) + \cos(a+b)]$$
$$\sin a\cos b = \frac{1}{2}[\sin(a+b) + \sin(a-b)]$$
$$\cos a\sin b = \frac{1}{2}[\sin(a+b) - \sin(a-b)]$$

Formulas Theorems For The Special Func

Shasha Hu

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