Trigonometric Identities

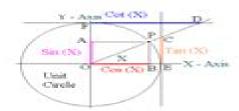
The six trigonometric functions/Reciprocals Identities

$$\sin x = \frac{opp}{hyp} = \frac{y}{r} = \frac{1}{\csc x}$$

$$\cos x = \frac{adj}{hyp} = \frac{x}{r} = \frac{1}{\sec x}$$

$$\cot x = \frac{opp}{adj} = \frac{y}{x} = \frac{\sin x}{\cos x}$$

$$\cot x = \frac{adj}{opp} = \frac{x}{y} = \frac{1}{\tan x} = \frac{\cos x}{\sin x}$$



Pythagorean Identities

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

 $\tan^2 x - \sec^2 x = -1$

$$\cos^2 x = 1 - \sin^2 x$$

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

$$sin^2x = 1 - cos^2x$$
$$1 + cot^2x = csc^2x$$

Sum or difference of two angles

$$sin(a + b) = sina cosb + cosa sinb$$

 $sin(a - b) = sina cosb - cosa sinb$
 $tan(a + b) = \frac{tan a + tan b}{1 - tan a tan b}$

$$cos(a - b) = cosa cosb + sina sinb
 $tan(a - b) = \frac{tan a - tan b}{1 + tan a tan b}$$$

cos(a + b) = cosa cosb - sina sinb

Double Angle Formulas

$$\cos 2x = 1 - 2\sin^2 x$$
 $\cos 2x = 2\cos^2 x - 1$

$$\cos 2x = \cos^2 x - \sin^2 x$$
 $\sin 2x = 2\sin x \cos x$

$$\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$$

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

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

$$\cos^2 x = \frac{1 + \cos 2x}{2}$$

$$\tan^2 x = \frac{1 - \cos 2x}{1 + \cos 2x}$$

$$\sin \frac{x}{2} = \pm \sqrt{\frac{1 - \cos x}{2}}$$

$$\cos \frac{x}{2} = \pm \sqrt{\frac{1 + \cos x}{2}}$$

$$\tan\frac{x}{2} = \pm\sqrt{\frac{1-\cos x}{1+\cos x}} = \frac{\sin x}{1+\cos x} = \frac{1-\cos x}{\sin x}$$

Reduction Formulas

$$sin(-x) = -sinx$$
 $cos(-x) = cosx$
 $sin(x) = -sin(x - \pi)$ $cos(x) = -cos(x - \pi)$
 $tan(-x) = -tanx$ $tan(x) = tan(x - \pi)$

$$\pm \sin x = \cos \left(x \pm \frac{\pi}{2} \right) \qquad \pm \cos x = \sin \left(x \pm \frac{\pi}{2} \right)$$

$a^2 = b^2 + c^2 - 2bc \cos A$ Law of costnes

(where A is the angle of a scalene △ opposite side a)

Co-Functions

$$\sin x = \cos(90^{\circ} - x)$$
 $\cos x = \sin(90^{\circ} - x)$

$$tanx = cot(90^{\circ} - x)$$
 $secx = csc(90^{\circ} - x)$

Sum and Product Formulas

$$sina cosb = Valsin(a + b) + sin(a - b)1$$

 $cosa sinb = Valsin(a + b) - sin(a - b)1$

$$cosa cosb = V_2[cos(a + b) + cos(a - b)]$$

 $sina sinb = V_2[cos(a - b) - cos(a + b)]$

$$\sin x + \sin y = 2 \sin \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$
$$\cos x + \cos y = 2 \cos \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$

$$\sin x - \sin y = 2\cos\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$
$$\cos x - \cos y = -2\sin\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$

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Michelle Rose Gilman, Christopher Burger, Karina Neal

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