

TRIGONOMETRY

Right triangle definition

For this definition we assume that

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



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

Double Angle Formulas Half Angle Formulas

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

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

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

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

Product to Sum Formulas

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

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

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

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+cot² θ = csc² θ Inverse Trig Functions y = sm x is equivalent to x = sm y

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

Law of Sines

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

Law of Cosines

$$a^2 = b^2 + c^3 - 2bc \cos \alpha$$

 $b^2 = a^3 + c^3 - 2ac \cos \beta$

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

ALGEBRA

Arithmetic Operations

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

$$\frac{\binom{a}{b}}{c} - \frac{a}{bc}$$
 $\frac{a}{\binom{b}{c}} - \frac{ac}{b}$

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

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

$$\frac{ab+ac}{a} = b+c, \ a \neq 0 \qquad \frac{\binom{a}{b}}{\binom{c}{d}} = \frac{ad}{bc}$$

The information for this handout was compiled from the following sources: Paul's Online Math Notes. (n.d.). Retrieved from http://tutorial.math.lamar.edu/cheat_table.aspx

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