

# Download Mathematics Formula Trigonometry Pdf

www.mathportal.org Math Formulas: Trigonometry Identities Right-Triangle Definitions 1.  $\sin = \frac{\text{Opposite}}{\text{Hypotenuse}}$  2.  $\cos = \frac{\text{Adjacent}}{\text{Hypotenuse}}$  3.  $\tan = \frac{\text{Opposite}}{\text{Adjacent}}$  One of the simplest and most basic formulas in Trigonometry provides the measure of an arc in terms of the radius of the circle,  $N$ , and the arc's central angle  $\theta$ , expressed in radians. Trigonometric Formula Sheet Definition of the Trig Functions Right Triangle Definition Assume that:  $0 < \theta < \frac{\pi}{2}$  or  $0 < \theta < 90^\circ$  hypotenuse adjacent opposite  $\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$   $\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$   $\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$  © Department of Mathematics & Statistics – Arizona State University 3 Example: Find the value of  $\sin 300^\circ$ . We may write  $\sin 300^\circ = \sin(360^\circ - 60^\circ) = -\sin 60^\circ = -\frac{\sqrt{3}}{2}$