

Trigonometry (Speedy Study Guides)

Speedy Study Guides

TRIGONOMETRY

Arccosine- the inverse function of the cosine; the angle that has a cosine equal to a given number

Arctangent- the inverse function of the tangent; the angle that has a tangent equal to a given number

Cotangent- ratio of the adjacent to the opposite side of a right-angled triangle

Arcsine- the inverse function of the sine; the angle that has a sine equal to a given number

Trigonometric function- function of an angle expressed as a ratio of the lengths of the sides of right-angled triangle containing the angle

Trigonometric- of or relating to or according to the principles of trigonometry

Radian- the unit of plane angle; defined as the angle at the center of a circle subtended by an arc equal in length to the radius (approximately 57.295 degrees)

Cosecant- ratio of the hypotenuse to the opposite side of a right-angled triangle

Inverse Function- a function obtained by expressing the dependent variable of one function as the independent variable of another; f and g are inverse functions if f(g(x)) = x and g(f(x)) = x

Cosine- ratio of the adjacent side to the hypotenuse of a right-angled triangle

Secant- a straight line that intersects a curve at two or more points

Function- what something is used for

Sine- ratio of the length of the side opposite the given angle to the length of the hypotenuse of a right-angled triangle

Tangent- a straight line or plane that touches a curve or curved surface at a point but does not intersect it at that point

Angle- the space between two lines or planes that intersect; the inclination of one line to another; measured in degrees or radians

Trigonometry Formulas

$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$

$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$

$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$

$\cot \theta = \frac{\text{adjacent}}{\text{opposite}}$

$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}}$

$\csc \theta = \frac{\text{hypotenuse}}{\text{opposite}}$

Reciprocal Properties

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

$\sin \theta \csc \theta = 1$

$\cos \theta \sec \theta = 1$

$\tan \theta \cot \theta = 1$

Quotient Properties

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

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

$\sec \theta = \frac{1}{\cos \theta}$

$\csc \theta = \frac{1}{\sin \theta}$

Odd/Even Identities

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

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Reviews

If you need to adding benefit, a must buy book. it was writtern really perfectly and beneficial. You may like the way the author create this ebook.

(Rebekah Becker)

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