

CHAPTER 7 **Trigonometric Library Functions**

The following is a list of available trigonometric functions. These functions can operate on numbers, parameters, variables, and arithmetic expressions.

These functions are described in detail in most standard trigonometry and pre-calculus textbooks.

Trigonometric functions

SIN(X)	Compute the sine.
COS(X)	Compute the cosine.
TAN(X)	Compute the tangent.
COT(X)	Compute the cotangent.
SEC(X)	Compute the secant.
CSC(X)	Compute the cosecant.

Inverse Trigonometric Functions

ARCSIN(X)	Compute the inverse sine.
ARCCOS(X)	Compute the inverse cosine.
ARCTAN(X)	Compute the inverse tangent.
ARCCOT(X)	Compute the inverse cotangent.
ARCSEC(X)	Compute the inverse secant.
ARCCSC(X)	Compute the inverse cosecant.

Hyperbolic Trigonometric Functions

SINH(X)	Compute the hyperbolic sine.
COSH(X)	Compute the hyperbolic cosine.
TANH(X)	Compute the hyperbolic tangent.
COTH(X)	Compute the hyperbolic cotangent.
SECH(X)	Compute the hyperbolic secant.
CSCH(X)	Compute the hyperbolic cosecant.

Inverse Hyperbolic Trigonometric Functions

ARCSINH(X)	Compute the inverse hyperbolic sine.
ARCCOSH(X)	Compute the inverse hyperbolic cosine.
ARCTANH(X)	Compute the inverse hyperbolic tangent.
ARCCOTH(X)	Compute the inverse hyperbolic cotangent.
ARCSECH(X)	Compute the inverse hyperbolic secant.
ARCCSCH(X)	Compute the inverse hyperbolic cosecant.