

ESS Property or operator	Proposed Harony	C math.h	C99 math functions	X/Open extensions	C++ TR1	definition	Allen Wirls-Brock			
	TBD	<a href="http://www.dinkumware.com/">http://www.dinkumware.com/</a>	<a href="http://www.open-std.org/jtc1/sc22/wg14/www/docs/n1570.pdf">http://www.open-std.org/jtc1/sc22/wg14/www/docs/n1570.pdf</a>	<a href="http://pubs.opengroup.org/onlinepubs/009695399/functions/math.html">http://pubs.opengroup.org/onlinepubs/009695399/functions/math.html</a>			2/23/2011			
isNaN(x)			isnan(x)			is normalized and finite				
isFinite(x)			isfinite(x)			x>y ? 1 : 0				
			isinf(x)			x>y ? 1 : 0				
			isnormal(x)			x>=y ? 1 : 0				
			isgreater(x,y)			x>=y ? 1 : 0				
			isgreaterequal(x,y)			x>=y ? 1 : 0				
			isless(x,y)			x<=y ? 1 : 0				
			islessequal(x,y)			(x<y    x==y) ? 1 : 0				
			islessgreater(x,y)			(x>y    x==y) ? 1 : 0				
			isunordered(x,y)			(isNaN(x)    isNaN(y)) ? 1 : 0				
Number.MAX_VALUE										
Number.MIN_VALUE										
Number.NAN										
Number.NEGATIVE_INFINITY										
Number.POSITIVE_INFINITY										
Math.E	M_E									
Math.LN10	M_LN10									
Math.LN2	M_LN2									
Math.LOG2E	M_LOG2E									
Math.LOG10E	M_LOG10E									
Math.PI	M_PI									
	M_PI_2									
	M_PI_4									
	M_1_PI									
	M_2_PI									
	M_2_SQRTPI									
Math.SQRT1_2	M_SQRT1_2									
Math.SQRT2	M_SQRT2									
	HUGE_VAL									
	INFINITY									
	NAN									
	fpclassify(x)					returns an integer code classify x as normal, subnormal, zero				
						1 if x is negative, 0 otherwise (including NaN)				
	signbit(x)									
Math.abs(x)	false(x), abs(x), C++									
Math.acos(x)	acos(x)									
Math.asin(x)	asin(x)									
Math.atan(x)	atan(x)									
Math.atan2(y,x)	atan2(y,x)									
Math.ceil(x)	ceil(x)									
Math.cos(x)	cos(x)									
Math.exp(x)	exp(x)									
Math.floor(x)	floor(x)									
% operator	fmod(num,denom)									
	frexp(x,exp)									
	ldexp(x,exp)									
Math.log(x)	log(x)									
	log10(x)									
	log1p(x)									
	log2(x)									
Math.max(v1,v2,...)	fmax(x,y)					log(1+x)				
Math.min(v1,v2,...)	fmin(x,y)					log(2*x)				
	modf(x,*int)					max(x,y)				
Math.pow(x,y)	pow(x,y)					min(x,y)				
Math.random()						decompose number into integer and fraction parts				
	lround(x);llround(x)									
						round, x.5 rounds away from zero ignoring current rounding mode; int result				
						rounding current rounding mode; int result				
						round using current mode, float result				
						round, x.5 rounds away from zero; float result				
Math.round(x)	round									
Math.sin(x)	sin(x)									
Math.sqrt(x)	sqrt(x)									
Math.tan(x)	tan(x)									
	cosh(x)									
	sinh(x)									
	tanh(x)									
	acos(x)									
	asin(x)									
	atanh(x)									
	cbrt(x)									
	copysign(x,y)									
	erf(x)									
	erfc(x)									
	exp(x)									
	expm1(x)									
	fdim(x,y)									
	fmax(x,y,z)									
	hypot(x,y)									
	ilogb(x); logb(x)									
	lgamma(x)									
	nans(s)									
	nearbyint(x)									
						round to nearest integer using current rounding mode, no exceptions, overflow produces HUGE_VAL				
	nextafter(x,y)					next representable value after x towards y				
	nexttowards(x,y)					same as nextafter except y is exact precision				
	remainder(x,y)					remainder as defined by IEC 60559				
	remquo(x,y,*q)					returns remainder, and stores quotient				
	scalbn(x,n);scalebn(x,n)	scalb(x,y)				x*pow(FLT_RADIX,n); n is y for scale				
	tgamma(x)					gamma function				
	trunc(x,n)					truncate number to an integer				
	j0(x)					Bessel function of x of the first kind of order 0				
	j1(x)					Bessel function of x of the first kind of order 1				
	jn(x)					Bessel function of x of the first kind of order n				
	y0(x)					Bessel function of x of the second kind of order 0				
	y1(x)					Bessel function of x of the second kind of order 1				
	yn(x,n)					Bessel function of x of the second kind of order n				
	assoc_legendre(n,m,x)					associated Legendre polynomial				
	assoc_leguerre(n,m,x)									
	bessel(x,y)									
	comp_ellint_1(k)					complete elliptic integral of the first kind of k				
	comp_ellint_2(k)					complete elliptic integral of the second kind of k				
	comp_ellint_3(k)					complete elliptic integral of the third kind of k				
	cyl_bessel_i(nu,x)					regular modified cylindrical Bessel function				
	cyl_bessel_j(nu,x)					cylindrical Bessel function				
	cyl_bessel_k(nu,x)					irregular modified cylindrical Bessel function				
	cyl_neumann(nu,x)					cylindrical Neumann function				
	ellint_1(k,phi)					incomplete elliptic integral of the first kind				
	ellint_2(k,phi)					incomplete elliptic integral of the second kind				
	ellint_3(k,phi)					incomplete elliptic integral of the third kind				
	expint(x)					exponential integral of x				
	hermite(n,x)					Hermite polynomial of n and x				
	laguerre(n,x)					Laguerre polynomial of n and x				
	legendre(x)					Legendre polynomial of n and x				
	remain_zeta(x)									
	sph_bessel(n,x)					spherical Bessel function of the first kind of n and x				
	sph_legendre(m,theta)					spherical associated Legendre function				
	sph_neumann(n,x)					spherical Neumann function				