

MATH MODULE

Python has a built-in module that you can use for mathematical tasks.
The math module has a set of methods and constants.

Math Modules

Method	Description
<code>math.acos()</code>	Returns the arc cosine of a number
<code>math.acosh()</code>	Returns the inverse hyperbolic cosine of a number
<code>math.asin()</code>	Returns the arc sine of a number
<code>math.asinh()</code>	Returns the inverse hyperbolic sine of a number
<code>math.atan()</code>	Returns the arc tangent of a number in radians
<code>math.atan2()</code>	Returns the arc tangent of y/x in radians
<code>math.atanh()</code>	Returns the inverse hyperbolic tangent of a number
<code>math.ceil()</code>	Rounds a number up to the nearest integer
<code>math.comb()</code>	Returns the number of ways to choose k items from n items without repetition and
<code>math.copysign()</code>	Returns a float consisting of the value of the first parameter and the sign of t
<code>math.cos()</code>	Returns the cosine of a number
<code>math.cosh()</code>	Returns the hyperbolic cosine of a number
<code>math.degrees()</code>	Converts an angle from radians to degrees
<code>math.dist()</code>	Returns the Euclidean distance between two points (p and q), where p and q are t
<code>math.erf()</code>	Returns the error function of a number
<code>math.erfc()</code>	Returns the complementary error function of a number
<code>math.exp()</code>	Returns E raised to the power of x
<code>math.expm1()</code>	Returns $E^x - 1$
<code>math.fabs()</code>	Returns the absolute value of a number
<code>math.factorial()</code>	Returns the factorial of a number
<code>math.floor()</code>	Rounds a number down to the nearest integer
<code>math.fmod()</code>	Returns the remainder of x/y
<code>math.frexp()</code>	Returns the mantissa and the exponent, of a specified number
<code>math.fsum()</code>	Returns the sum of all items in any iterable (tuples, arrays, lists, etc.)
<code>math.gamma()</code>	Returns the gamma function at x
<code>math.gcd()</code>	Returns the greatest common divisor of two integers
<code>math.hypot()</code>	Returns the Euclidean norm
<code>math.isclose()</code>	Checks whether two values are close to each other, or not
<code>math.isfinite()</code>	Checks whether a number is finite or not
<code>math.isinf()</code>	Checks whether a number is infinite or not
<code>math.isnan()</code>	Checks whether a value is NaN (not a number) or not
<code>math.isqrt()</code>	Rounds a square root number downwards to the nearest integer
<code>math.ldexp()</code>	Returns the inverse of <code>math.frexp()</code> which is $x * (2^{**i})$ of the given numbers x a
<code>math.lgamma()</code>	Returns the log gamma value of x
<code>math.log()</code>	Returns the natural logarithm of a number, or the logarithm of number to base
<code>math.log10()</code>	Returns the base-10 logarithm of x

<code>math.log1p()</code>	Returns the natural logarithm of 1+x
<code>math.log2()</code>	Returns the base-2 logarithm of x
<code>math.perm()</code>	Returns the number of ways to choose k items from n items with order and without
<code>math.pow()</code>	Returns the value of x to the power of y
<code>math.prod()</code>	Returns the product of all the elements in an iterable
<code>math.radians()</code>	Converts a degree value into radians
<code>math.remainder()</code>	Returns the closest value that can make numerator completely divisible by the de
<code>math.sin()</code>	Returns the sine of a number
<code>math.sinh()</code>	Returns the hyperbolic sine of a number
<code>math.sqrt()</code>	Returns the square root of a number
<code>math.tan()</code>	Returns the tangent of a number
<code>math.tanh()</code>	Returns the hyperbolic tangent of a number
<code>math.trunc()</code>	Returns the truncated integer parts of a number

Math Constants

Constant	Description
<code>math.e</code>	Returns Euler's number (2.7182...)
<code>math.inf</code>	Returns a floating-point positive infinity
<code>math.nan</code>	Returns a floating-point NaN (Not a Number) value
<code>math.pi</code>	Returns PI (3.1415...)
<code>math.tau</code>	Returns tau (6.2831...)

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