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Python cmath Module

Python has a built-in module that you can use for mathematical tasks for complex numbers.

The methods in this module accepts `int`, `float`, and `complex` numbers. It even accepts Python objects that has a `__complex__()` or `__float__()` method.

The methods in this module almost always return a complex number. If the return value can be expressed as a real number, the return value has an imaginary part of 0.

The `cmath` module has a set of methods and constants.

cMath Methods

Method	Description
<code>cmath.acos(x)</code>	Returns the arc cosine value of x
<code>cmath.acosh(x)</code>	Returns the hyperbolic

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arc cosine of x

[cmath.asin\(x\)](#) Returns the arc sine of x

[cmath.asinh\(x\)](#) Returns the hyperbolic arc sine of x

[cmath.atan\(x\)](#) Returns the arc tangent value of x

[cmath.atanh\(x\)](#) Returns the hyperbolic arctangent value of x

[cmath.cos\(x\)](#) Returns the cosine of x

[cmath.cosh\(x\)](#) Returns the hyperbolic cosine of x

[cmath.exp\(x\)](#) Returns the value of E^x , where E is Euler's number (approximately 2.718281...), and x is the number passed to it

[cmath.isclose\(\)](#) Checks whether two values are close, or not

[cmath.isfinite\(x\)](#) Checks whether x is a finite number

[cmath.isinf\(x\)](#) Check whether x is a positive or negative infinity

[cmath.isnan\(x\)](#) Checks whether x is NaN (not a number)

[cmath.log\(x\[, base\]\)](#) Returns the logarithm of x to the base

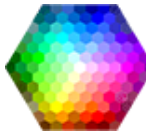
[cmath.log10\(x\)](#) Returns the base-10 logarithm of x

[cmath.phase\(\)](#) Return the phase of a complex number

[cmath.polar\(\)](#) Convert a complex number to polar coordinates

[cmath.rect\(\)](#) Convert polar

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	coordinates to rectangular form
<code>cmath.sin(x)</code>	Returns the sine of x
<code>cmath.sinh(x)</code>	Returns the hyperbolic sine of x
<code>cmath.sqrt(x)</code>	Returns the square root of x
<code>cmath.tan(x)</code>	Returns the tangent of x
<code>cmath.tanh(x)</code>	Returns the hyperbolic tangent of x

cMath Constants

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

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