Python 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 Methods

Method	Description
1. math.acos(x)	Returns the arc cosine value of x
2. math.acosh(x)	Returns the hyperbolic arc cosine of x
3. math.asin(x)	Returns the arc sine of x
4. math.asinh(x)	Returns the hyperbolic arc sine of x
5. math.atan(x)	Returns the arc tangent value of x
6. math.atan2(y, x)	Returns the arc tangent of y/x in radians
7. math.atanh(x)	Returns the hyperbolic arctangent value of x
8. math.ceil(x)	Rounds a number upwards to the nearest integer, and returns the result
9. math.comb(n, k)	Returns the number of ways to choose k items from n items without repetition and order
10. math.copysign(x, y)	Returns a float consisting of the value of the first parameter and the sign of the s
11. math.cos(x)	Returns the cosine of x
12. math.cosh(x)	Returns the hyperbolic cosine of x
13. math.degrees(x)	Converts an angle from radians to degrees

14. math.fabs(x)	Returns the absolute value of a number
15. math.factorial()	Returns the factorial of a number
16. math.floor(x)	Rounds a number downwards to the nearest integer, and returns the result
17. math.fmod(x, y)	Returns the remainder of specified numbers when a number is divided by anoth
18. math.frexp()	Returns the mantissa and the exponent, of a specified value
19. math.fsum(iterable)	Returns the sum of all items in an iterable (tuples, arrays, lists, etc.)
20. math.gcd()	Returns the highest value that can divide two integers
21. math.isclose()	Checks whether two values are close, or not
22. math.isfinite(x)	Checks whether x is a finite number
23. math.isinf(x)	Check whether x is a positive or negative infinty
24. math.isnan(x)	Checks whether x is NaN (not a number)
25. math.isqrt(n)	Returns the nearest integer square root of n
26. math.log(x, base)	Returns the natural logarithm of a number, or the logarithm of number to base
27. math.log10(x)	Returns the base-10 logarithm of x
28. math.log2(x)	Returns the base-2 logarithm of x
29. math.pow(x, y)	Returns the value of x to the power of y
30. math.radians(x)	Converts a degree value (x) to radians
31. math.remainder(x, y)	Returns the closest value that can make numerator completely divisible by the d

32. math.sin(x)	Returns the sine of x
33. math.sqrt(x)	Returns the square root of x
34. math.tan(x)	Returns the tangent of x

Math Constants

Constant	**Description**
35. math.e	Returns Euler's number (2.7182...)
36. math.inf	Returns a floating-point positive infinity
37. math.nan	Returns a floating-point NaN (Not a Number) value
38. math.pi	Returns PI (3.1415...)