



JavaScript Math Reference

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Math Object

The Math object allows you to perform mathematical tasks.

Math is not a constructor. All properties/methods of Math can be called by using Math as an object, without creating it:

Example

```
let x = Math.PI;  
let y = Math.sqrt(16);
```

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Name	Description
<u>abs(x)</u> .	Returns the absolute value of x
<u>acos(x)</u> .	Returns the arccosine of x, in radians
<u>acosh(x)</u> .	Returns the hyperbolic arccosine of x
<u>asin(x)</u> .	Returns the arcsine of x, in radians
<u>asinh(x)</u> .	Returns the hyperbolic arcsine of x
<u>atan(x)</u> .	Returns the arctangent of x as a numeric value between -PI/2 and PI/2 radians
<u>atan2(y, x)</u> .	Returns the arctangent of the quotient of its arguments
<u>atanh(x)</u> .	Returns the hyperbolic arctangent of x
<u>cbrt(x)</u> .	Returns the cubic root of x
<u>ceil(x)</u> .	Returns x, rounded upwards to the nearest integer
<u>clz32(x)</u> .	Returns the number of leading zeros in a 32-bit binary representation of x
<u>cos(x)</u> .	Returns the cosine of x (x is in radians)
<u>cosh(x)</u> .	Returns the hyperbolic cosine of x
<u>E</u>	Returns Euler's number (approx. 2.718)
<u>exp(x)</u> .	Returns the value of E^x
<u>expm1(x)</u> .	Returns the value of E^x minus 1
<u>floor(x)</u> .	Returns x, rounded downwards to the nearest integer
<u>fround(x)</u> .	Returns the nearest (32-bit single precision) float representation of a number
<u>LN2</u>	Returns the natural logarithm of 2 (approx. 0.693)
<u>LN10</u>	Returns the natural logarithm of 10 (approx. 2.302)



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<u>LOG10E</u>	Returns the base-10 logarithm of E (approx. 0.434)								
<u>log1p(x)</u>	Returns the natural logarithm of 1 + x								
<u>log2(x)</u>	Returns the base-2 logarithm of x								
<u>LOG2E</u>	Returns the base-2 logarithm of E (approx. 1.442)								
<u>max(x1,x2,..)</u>	Returns the number with the highest value								
<u>min(x1,x2,..)</u>	Returns the number with the lowest value								
<u>PI</u>	Returns PI (approx. 3.14)								
<u>pow(x,y)</u>	Returns the value of x to the power of y								
<u>random()</u>	Returns a random number between 0 and 1								
<u>round(x)</u>	Rounds x to the nearest integer								
<u>sign(x)</u>	Returns the sign of a number (checks whether it is positive, negative or zero)								
<u>sin(x)</u>	Returns the sine of x (x is in radians)								
<u>sinh(x)</u>	Returns the hyperbolic sine of x								
<u>sqrt(x)</u>	Returns the square root of x								
<u>SQRT1_2</u>	Returns the square root of 1/2 (approx. 0.707)								
<u>SQRT2</u>	Returns the square root of 2 (approx. 1.414)								
<u>tan(x)</u>	Returns the tangent of an angle								
<u>tanh(x)</u>	Returns the hyperbolic tangent of a number								
<u>trunc(x)</u>	Returns the integer part of a number (x)								

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