

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math SQRT2 Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.SQRT2
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```

Output

Property Value is : 1.4142135623730951

JavaScript - Math SQRT2 Property

Advertisements

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Description

It returns the square root of 2 which is approximately 1.414.

Syntax

Its syntax is as follows –

```
Math.SQRT2
```

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math SQRT2 Property</title>
  </head>







  <body>
    <script type = "text/javascript">
      var property_value = Math.SQRT2
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```








Output







Property Value is : 1.4142135623730951

Math Methods

Here is a list of the methods associated with Math object and their description

Sr.No.	Method & Description
1	abs()  Returns the absolute value of a number.
2	acos()  Returns the arccosine (in radians) of a number.
3	asin()  Returns the arcsine (in radians) of a number.
4	atan()  Returns the arctangent (in radians) of a number.
5	atan2()  Returns the arctangent of the quotient of its arguments.
6	ceil()  Returns the smallest integer greater than or equal to a number.

7	cos()  Returns the cosine of a number.
8	exp()  Returns E^N , where N is the argument, and E is Euler's constant, the base of the natural logarithm.
9	floor()  Returns the largest integer less than or equal to a number.
10	log()  Returns the natural logarithm (base E) of a number.
11	max()  Returns the largest of zero or more numbers.
12	min()  Returns the smallest of zero or more numbers.
13	pow()  Returns base to the exponent power, that is, base exponent.

14	random()  Returns a pseudo-random number between 0 and 1.
15	round()  Returns the value of a number rounded to the nearest integer.
16	sin()  Returns the sine of a number.
17	sqrt()  Returns the square root of a number.
18	tan()  Returns the tangent of a number.
19	toSource()  Returns the string "Math".

JavaScript - Math abs Method

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Description

This method returns the absolute value of a number.

Syntax

Its syntax is as follows –

```
Math.abs( x ) ;
```

Parameter Details

x – A number.

Return Value

Returns the absolute value of a number.

Return Value

Returns the absolute value of a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math abs() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.abs(-1);
      document.write("First Test Value : " + value );

      var value = Math.abs(null);
      document.write("<br />Second Test Value : " + value );

      var value = Math.abs(20);
      document.write("<br />Third Test Value : " + value );

      var value = Math.abs("string");
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```


Output

First Test Value : 1

Second Test Value : 0

Third Test Value : 20

Fourth Test Value : NaN

JavaScript - Math acos Method

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Description

This method returns the arccosine in radians of a number. The `acos` method returns a numeric value between 0 and π radians for x between -1 and 1. If the value of number is outside this range, it returns NaN.

Syntax

Its syntax is as follows –

```
Math.acos( x ) ;
```

Parameter Details

x – A number.

Return Value

Returns the arccosine in radians of a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math acos() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.acos(-1);
      document.write("First Test Value : " + value );

      var value = Math.acos(null);
      document.write("<br />Second Test Value : " + value );

      var value = Math.acos(30);
      document.write("<br />Third Test Value : " + value );

      var value = Math.acos("string");
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 3.141592653589793
Second Test Value : 1.5707963267948966
Third Test Value : NaN
Fourth Test Value : NaN
```

JavaScript - Math asin Method

Advertisements

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Description

This method returns the arcsine in radians of a number. The asin method returns a numeric value between $-\pi/2$ and $\pi/2$ radians for x between -1 and 1. If the value of number is outside this range, it returns NaN.

Syntax

Its syntax is as follows –

```
Math.asin( x ) ;
```

Parameter Details

x – A number.

Return Value

Returns the arcsine in radians of a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math asin() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.asin(-1);
      document.write("First Test Value : " + value );

      var value = Math.asin(null);
      document.write("<br />Second Test Value : " + value );

      var value = Math.asin(30);
      document.write("<br />Third Test Value : " + value );

      var value = Math.asin("string");
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

First Test Value : -1.5707963267948966

Second Test Value : 0

Third Test Value : NaN

Fourth Test Value : NaN

JavaScript Math - atan Method

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Description

This method returns the arctangent in radians of a number. The atan method returns a numeric value between $-\pi/2$ and $\pi/2$ radians.

Syntax

Its syntax is as follows –

```
Math.atan( x ) ;
```

Parameter Details

x – A number.

Return Value

Returns the arctangent in radians of a number.

Example

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math atan() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.atan(-1);
      document.write("First Test Value : " + value );

      var value = Math.atan(.5);
      document.write("<br />Second Test Value : " + value );

      value = Math.atan(30);
      document.write("<br />Third Test Value : " + value );

      var value = Math.atan("string");
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : -0.7853981633974483
Second Test Value : 0.4636476090008061
Third Test Value : 1.5374753309166493
Fourth Test Value : NaN
```

JavaScript - Math ceil Method

Advertisements

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Description

This method returns the smallest integer greater than or equal to a number.

Syntax

Its syntax is as follows –

```
Math.ceil( x ) ;
```

Parameter Details

x – A numbers.

Return Value

Returns the smallest integer greater than or equal to a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math ceil() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.ceil(45.95);
      document.write("First Test Value : " + value );

      var value = Math.ceil(45.20);
      document.write("<br />Second Test Value : " + value );

      var value = Math.ceil(-45.95);
      document.write("<br />Third Test Value : " + value );

      var value = Math.ceil(-45.20);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 46
Second Test Value : 46
Third Test Value : -45
Fourth Test Value : -45
```

JavaScript - Math cos Method

Advertisements

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Description

This method returns the cosine of a number. The cos method returns a numeric value between -1 and 1, which represents the cosine of the angle.

Syntax

Its syntax is as follows –

```
Math.cos( x ) ;
```

Parameter Details

x – A numbers.

Return Value

Returns the cosine of a number.

Example

Try the following example program.

[Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math cos() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.cos(90);
      document.write("First Test Value : " + value );

      var value = Math.cos(30);
      document.write("<br />Second Test Value : " + value );

      var value = Math.cos(-1);
      document.write("<br />Third Test Value : " + value );

      var value = Math.cos(2*Math.PI);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : -0.4480736161291702
Second Test Value : 0.15425144988758405
Third Test Value : 0.5403023058681398
Fourth Test Value : 1
```

JavaScript - Math exp Method

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Description

This method returns E^x , where x is the argument, and E is Euler's constant, the base of the natural logarithms.

Syntax

Its syntax is as follows –

```
Math.exp( x ) ;
```

Parameter Details

x – A numbers.

Return Value

Returns the exponential value of the variable x .

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math exp() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.exp(1);
      document.write("First Test Value : " + value );

      var value = Math.exp(30);
      document.write("<br />Second Test Value : " + value );

      var value = Math.exp(-1);
      document.write("<br />Third Test Value : " + value );

      var value = Math.exp(.5);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 2.718281828459045
Second Test Value : 10686474581524.482
Third Test Value : 0.3678794411714424
Fourth Test Value : 1.6487212707001282
```

JavaScript - Math floor Method

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Description

This method returns the largest integer less than or equal to a number.

Syntax

Its syntax is as follows –

```
Math.floor( x ) ;
```

Parameter Details

x – A numbers.

Return Value

Returns the largest integer less than or equal to a number x.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math floor() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.floor(10.3);
      document.write("First Test Value : " + value );

      var value = Math.floor(30.9);
      document.write("<br />Second Test Value : " + value );

      var value = Math.floor(-2.9);
      document.write("<br />Third Test Value : " + value );

      var value = Math.floor(-2.2);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 10
Second Test Value : 30
Third Test Value : -3
Fourth Test Value : -3
```

JavaScript - Math log Method

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Description

This method returns the natural logarithm (base E) of a number. If the value of number is negative, the return value is always **NaN**.

Syntax

Its syntax is as follows –

```
Math.log( x ) ;
```

Parameter Details

x – A numbers.

Return Value

Returns the natural logarithm (base E) of a number.

Example

Try the following example program.

[Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math log() Method</title>
  </head>
  <body>
    <script type = "text/javascript">
      var value = Math.log(10);
      document.write("First Test Value : " + value );

      var value = Math.log(0);
      document.write("<br />Second Test Value : " + value );

      var value = Math.log(-1);
      document.write("<br />Third Test Value : " + value );

      var value = Math.log(100);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 2.302585092994046
Second Test Value : -Infinity
Third Test Value : NaN
Fourth Test Value : 4.605170185988092
```

JavaScript - Math max Method

Advertisements

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Description

This method returns the largest of zero or more numbers. If no arguments are given, the results is **-Infinity**.

Syntax

Its syntax is as follows –

```
Math.max(value1, value2, ... valueN ) ;
```

Parameter Details

value1, value2, ... valueN : Numbers.

Return Value

Returns the largest of zero or more numbers.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math max() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.max(10, 20, -1, 100);
      document.write("First Test Value : " + value );

      var value = Math.max(-1, -3, -40);
      document.write("<br />Second Test Value : " + value );

      var value = Math.max(0, -1);
      document.write("<br />Third Test Value : " + value );

      var value = Math.max(100);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 100
Second Test Value : -1
Third Test Value : 0
Fourth Test Value : 100
```

JavaScript - Math min Method

Advertisements

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Description

This method returns the smallest of zero or more numbers. If no arguments are given, the results is **+Infinity**.

Syntax

Its syntax is as follows –

```
Math.min(value1, value2, ... valueN ) ;
```

Parameter Details

value1, value2, ... valueN : Numbers.

Return Value

Returns the smallest of zero or more numbers.

Example

Try the following example program.

[Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math min() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.min(10, 20, -1, 100);
      document.write("First Test Value : " + value );

      var value = Math.min(-1, -3, -40);
      document.write("<br />Second Test Value : " + value );

      var value = Math.min(0, -1);
      document.write("<br />Third Test Value : " + value );

      var value = Math.min(100);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : -1
Second Test Value : -40
Third Test Value : -1
Fourth Test Value : 100
```

JavaScript - Math pow Method

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Description

This method returns the base to the exponent power, that is, **base**^{exponent}.

Syntax

Its syntax is as follows –

```
Math.pow(base, exponent ) ;
```

Parameter Details

- **base** – The base number.
- **exponents** – The exponent to which to raise base.

Return Value

Returns the base to the exponent power, that is, **base**^{exponent}.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math pow() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.pow(7, 2);
      document.write("First Test Value : " + value );

      var value = Math.pow(8, 8);
      document.write("<br />Second Test Value : " + value );

      var value = Math.pow(-1, 2);
      document.write("<br />Third Test Value : " + value );

      var value = Math.pow(0, 10);
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 49
Second Test Value : 16777216
Third Test Value : 1
Fourth Test Value : 0
```

JavaScript - Math random Method

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Description

This method returns a random number between 0 (inclusive) and 1 (exclusive).

Syntax

Its syntax is as follows –

```
Math.random() ;
```

Return Value

Returns a random number between 0 (inclusive) and 1 (exclusive).

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math random() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.random( );
      document.write("First Test Value : " + value );

      var value = Math.random( );
      document.write("<br />Second Test Value : " + value );

      var value = Math.random( );
      document.write("<br />Third Test Value : " + value );

      var value = Math.random( );
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 0.7245902854795561
Second Test Value : 0.001374737188085673
Third Test Value : 0.29759907212343606
Fourth Test Value : 0.015434063749474758
```

JavaScript - Math round Method

Advertisements

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Description

This method returns the value of a number rounded to the nearest integer.

Syntax

Its syntax is as follows –

```
Math.round( x ) ;
```

Return Value

Returns the value of a number rounded to the nearest integer.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math round() Method</title>
  </head>
  <body>
    <script type = "text/javascript">
      var value = Math.round( 0.5 );
      document.write("First Test Value : " + value );

      var value = Math.round( 20.7 );
      document.write("<br />Second Test Value : " + value );

      var value = Math.round( 20.3 );
      document.write("<br />Third Test Value : " + value );

      var value = Math.round( -20.3 );
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 1
Second Test Value : 21
Third Test Value : 20
Fourth Test Value : -20
```

JavaScript - Math sin Method

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Description

This method returns the sine of a number. The **sin** method returns a numeric value between -1 and 1, which represents the sine of the argument.

Syntax

Its syntax is as follows –

```
Math.sin( x ) ;
```

Parameter Details

x – A number

Return Value

Returns the sine of a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math sin() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.sin( 0.5 );
      document.write("First Test Value : " + value );

      var value = Math.sin( 90 );
      document.write("<br />Second Test Value : " + value );

      var value = Math.sin( 1 );
      document.write("<br />Third Test Value : " + value );

      var value = Math.sin( Math.PI/2 );
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 0.479425538604203
Second Test Value : 0.8939966636005578
Third Test Value : 0.8414709848078965
Fourth Test Value : 1
```

JavaScript - Math sqrt Method

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Description

This method returns the square root of a number. If the value of a number is negative, sqrt returns NaN.

Syntax

Its syntax is as follows –

```
Math.sqrt( x ) ;
```

Parameter Details

x – A number

Return Value

Returns the square root of a given number.

Example

Try the following example program.

[Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math sqrt() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.sqrt( 0.5 );
      document.write("First Test Value : " + value );

      var value = Math.sqrt( 81 );
      document.write("<br />Second Test Value : " + value );

      var value = Math.sqrt( 13 );
      document.write("<br />Third Test Value : " + value );

      var value = Math.sqrt( -4 );
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 0.7071067811865476
Second Test Value : 9
Third Test Value : 3.605551275463989
Fourth Test Value : NaN
```

JavaScript - Math tan Method

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Description

This method returns the tangent of a number. The tan method returns a numeric value that represents the tangent of the angle.

Syntax

Its syntax is as follows –

```
Math.tan( x ) ;
```

Parameter Details

x – A number representing an angle in radians.

Return Value

Returns the tangent of a number.

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math tan() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.tan( -30 );
      document.write("First Test Value : " + value );

      var value = Math.tan( 90 );
      document.write("<br />Second Test Value : " + value );

      var value = Math.tan( 45 );
      document.write("<br />Third Test Value : " + value );

      var value = Math.tan( Math.PI/180 );
      document.write("<br />Fourth Test Value : " + value );
    </script>
  </body>
</html>
```

Output

```
First Test Value : 6.405331196646276
Second Test Value : -1.995200412208242
Third Test Value : 1.6197751905438615
Fourth Test Value : 0.017455064928217585
```

JavaScript - Math toSource Method

Advertisements

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Description

This method returns the string "Math". But this method does not work with IE.

Syntax

Its syntax is as follows –

```
Math.toSource() ;
```

Return Value

Returns the string "Math".

Example

Try the following example program.

```
<html>
  <head>
    <title>JavaScript Math toSource() Method</title>
  </head>

  <body>
    <script type = "text/javascript">
      var value = Math.toSource( );
      document.write("Value : " + value );
    </script>
  </body>
</html>
```

Output

Value : Math

JavaScript - The Math Object

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The **math** object provides you properties and methods for mathematical constants and functions. Unlike other global objects, **Math** is not a constructor. All the properties and methods of **Math** are static and can be called by using Math as an object without creating it.

Thus, you refer to the constant **pi** as **Math.PI** and you call the *sine* function as **Math.sin(x)**, where x is the method's argument.

Syntax

The syntax to call the properties and methods of Math are as follows

```
var pi_val = Math.PI;  
var sine_val = Math.sin(30);
```

JavaScript - Math E Property

Advertisements

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Description

This is an Euler's constant and the base of natural logarithms, approximately 2.718.

Syntax

Its syntax is as follows –

```
Math.E
```

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math E Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.E
      document.write("Property Value is :" + property_value);
    </script>
  </body>
</html>
```

Output

Property Value is :2.718281828459045

JavaScript - Math LN2 Property

Advertisements

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Description

It returns the natural logarithm of 2 which is approximately 0.693.

Syntax

Its syntax is as follows –

```
Math.LN2
```


Example

Try the following example program.

[Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math LN2 Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.LN2
      document.write("Property Value is : " + property_value);
    </script>

  </body>
</html>
```

Output

Property Value is : 0.6931471805599453

JavaScript - Math LN10 Property

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Description

It returns the natural logarithm of 10 which is approximately 2.302.

Syntax

Its syntax is as follows –

```
Math.LN10
```

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math LN10 Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.LN10
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```

Output

Property Value is : 2.302585092994046

JavaScript - Math LOG2E Property

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Description

This returns base 2 logarithm of E which is approximately 1.442.

Syntax

```
Math.LOG2E
```

Example

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math LOG2E Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.LOG2E
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```

This will produce following result –

```
Property Value is : 1.4426950408889633
```

JavaScript - Math PI Property

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Description

It returns the ratio of the circumference of a circle to its diameter which is approximately 3.14159.

Syntax

Its syntax is as follows –

```
Math.PI
```

Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math PI Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.PI
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```

Output

Property Value is : 3.141592653589793

JavaScript - Math SQRT1_2 Property

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Description

It returns the square root of $1/2$; equivalently, 1 over the square root of 2 which is approximately 0.707.

Syntax

Its syntax is as follows –

```
Math.SQRT1_2
```


Example

Try the following example program.

[🔗 Live Demo](#)

```
<html>
  <head>
    <title>JavaScript Math SQRT1_2 Property</title>
  </head>

  <body>
    <script type = "text/javascript">
      var property_value = Math.SQRT1_2
      document.write("Property Value is : " + property_value);
    </script>
  </body>
</html>
```

Output

Property Value is : 0.7071067811865476

JavaScript - Math SQRT2 Property

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Description

It returns the square root of 2 which is approximately 1.414.

Syntax

Its syntax is as follows –

```
Math.SQRT2
```