

# JavaScript Math pow() method

The JavaScript math pow() method returns the base to the exponent power such as  $\text{base}^{\text{exponent}}$ . In other words, the base value (x) is multiplied with itself exponent times (y).

## Syntax

The pow() method is represented by the following syntax:

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

## Parameter

**Base** - The base number.

**Exponent** - The number used to raise the base.



## Return

The value of base to the power of exponent.

## JavaScript Math pow() method example

Here, we will understand pow() method through various examples.

### Example 1

Let's see a simple example to print the power of given number.

```
document.writeln(Math.pow(2,3)+"<br>");  
document.writeln(Math.pow(5,1.4));  
</script>
```

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### Output:

```
8  
9.518269693579391
```

## Example 2

Let's see an example to understand the pow() method with different test cases.

```
<script>  
document.writeln(Math.pow(2,-3)+"<br>");  
document.writeln(Math.pow(-3,2)+"<br>");  
document.writeln(Math.pow(-5,1.4)+"<br>");  
document.writeln(Math.pow(5,-1.4));  
</script>
```

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### Output:

```
0.125  
9  
NaN  
0.1050611121761507
```

## Example 3

Let's understand the pow() method with your own test cases.

```
<script>  
function display()  
{  
    var x=document.getElementById("base").value;  
    document.getElementById("exp").value;
```

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```
document.getElementById("result").innerHTML=Math.pow(x,y);
}
</script>
<form>
Base: <input type="text" id="base"> <br>
Exponent: <input type="text" id="exp"> <br>
  <input type="button" onclick="display()" value="submit">
</form>
<p><span id="result"></span></p>
```

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