

# JavaScript Math sqrt() method

The JavaScript math **sqrt()** method returns the square root of a number. If the provided number is negative, it returns NaN.

## Syntax

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

```
Math.sqrt(num)
```

## Parameter

**num** - A number.

## Return

The square root of the given number.



## JavaScript Math sqrt() method example

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

### Example 1

Let's see an example to print square root of the given numbers.

```
<script>  
document.writeln(Math.sqrt(16)+ "<br>");  
↑ SCROLL TO TOP Math.sqrt(12));
```

```
</script>
```

**Test it Now**

**Output:**

```
4  
3.4641016151377544
```

## Example 2

Let's see some cases where sqrt() method returns NaN.

```
<script>  
document.writeln(Math.sqrt()+ "<br>");  
document.writeln(Math.sqrt(-9));  
</script>
```

**Test it Now**

**Output:**

```
NaN  
NaN
```

## Example 3

Here, you can test sqrt() method with your own test cases.

```
<script>  
function display()  
{  
    var x=document.getElementById("num").value;  
    document.getElementById("result").innerHTML=Math.sqrt(x);  
}  
</script>  
<form>  
    Enter a number: <input type="text" id="num">  
    <input type="button" onclick="display()" value="submit">
```

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```
...sult"></span></p>
```