

Explain Various Maths Functions Available in Visual Basic.  
Explain every Function with Example.

Ans.

There are following functions are used in Visual Basic.

## 1) Abs()

This function will return the absolute value of a number.

For Example

$$\text{Abs}(12.45) = 12.45$$

This example will check the value if value is positive then it will return positive value to us.

$$\text{Abs}(0) = 0$$

This example indicate that value is zero then output will be zero.

$$\text{Abs}(-19.69) = 19.69$$

This example indicate the value is negative then output will remain positive. In other word we can say the is will return positive value to us.

## 2) sgn()

This function will return an integer value that will indicate the sign of a number . This function will return the following values.

Return value	Meaning
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-1	<i>value</i> is less than zero.
0	<i>value</i> is equal to zero.
1	<i>value</i> is greater than zero.

For Example

Sgn(-10) this function will return -1 value to us

Sgn(0) This function will return 0 to us

Sgn(20) This function will return 1 to us.

### 3) sqr()

This function will return the square root of a number.

Sqr(4)

This function will return value 2 as output to us.

Sqr(23)

This function will return 4.79583152331272 as output to us.

Sqr(0)

This function will return 0 as output to us.

Sqr(-4)

This function will generate run time error to us.

### 4) Round ()

This function will return a number rounded to a specified number of decimal places.

For Example

Round(1.5)

This function will return 2 as output to us

Round(2.5)

This function will also return 2 as output to us

Round(3.5)

This function will return 4 as output to us

Round(0.985, 2)

This function will return 0.98 as output to us.

Round(0.995, 2)

This function will return 1 as output to us