

# The pow () function in Python

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**The pow () function** built into Python returns the value of x with the power of y ( $x^y$ ). If there is a third parameter, the function returns x to the power y, the module z.

In this article, TipsMake.com will learn about pow (), syntax, parameters and examples with you. Invites you to read the track.

## The syntax of the pow () function in Python

```
pow(x, y[, z])
```

The pow (x, y) function is equivalent to:

```
x**y
```

## Parameters of the pow () function

The pow () function has 3 parameters:

1. x : base number
2. y : exponent
3. z : module (optional)

Possible circumstances with the parameter of pow ()

**x**  
**y**  
**z**

Integers (positive, negative) Positive integers May or may not Have integers (positive, negative) Negative integers Should not be included

## Return value from pow ()

The return value of pow () depends on the type of parameter passed.

**x**  
**y**  
**z**

## Return value

Positive integers Positive integers N / A Integers Positive integers Negative integers N / A Real numbers  
Negative integers N / A Positive integers Negative integers N / A integers Whole numbers (positive, negative )  
Positive integers Whole numbers (positive, negative) Integers

### Example 1: How does pow () work?

```
# x, y là s? d??ng (x**y) print(pow(2, 2)) # x là s? âm, y là s? d??  
ng print(pow(-2, 2)) # x là s? d??ng, y là s?  
âm (x**y) print(pow(2, -2)) # x, y là s? âm print(pow(-2, -2))
```

When you run the program, the output will be:

```
4 4 0.25 0.25
```

### Example 3: pow () has 3 parameters

```
x = 7 y = 2 z = 5 print(pow(x, y, z))
```

Return value:

```
4
```

In the above code,  $7^2$  is 49,  $49\% 5$  is equal to 4.

See also: Python built-in functions

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