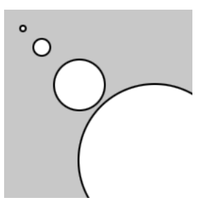
pow()

Calculates exponential expressions such as 2^3.

For example, `pow(2, 3)` evaluates the expression 2 × 2 × 2. `pow(2, -3)` evaluates 1 ÷ (2 × 2 × 2).

Examples



```
function setup() {
  createCanvas(100, 100);

  background(200);

  // Set the base of the exponent.
  let base = 3;

  // Top-left.
  let d = pow(base, 1);
  circle(10, 10, d);

  // Left-center.
  d = pow(base, 2);
  circle(20, 20, d);

  // Right-center.
  d = pow(base, 3);
  circle(40, 40, d);

  // Bottom-right.
  d = pow(base, 4);
  circle(80, 80, d);

  describe('A series of circles that grow exponentially from top left to bottom right.');
}
```

Syntax

```
pow(n, e)
```

Parameters

n	Number: base of the exponential expression.
e	Number: power by which to raise the base.

Returns

Number: n^e.

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Related References

abs
Calculates the absolute value of a number.

ceil
Calculates the closest integer value that is greater than or equal to a number.

constrain
Constrains a number between a minimum and maximum value.

dist
Calculates the distance between two points.