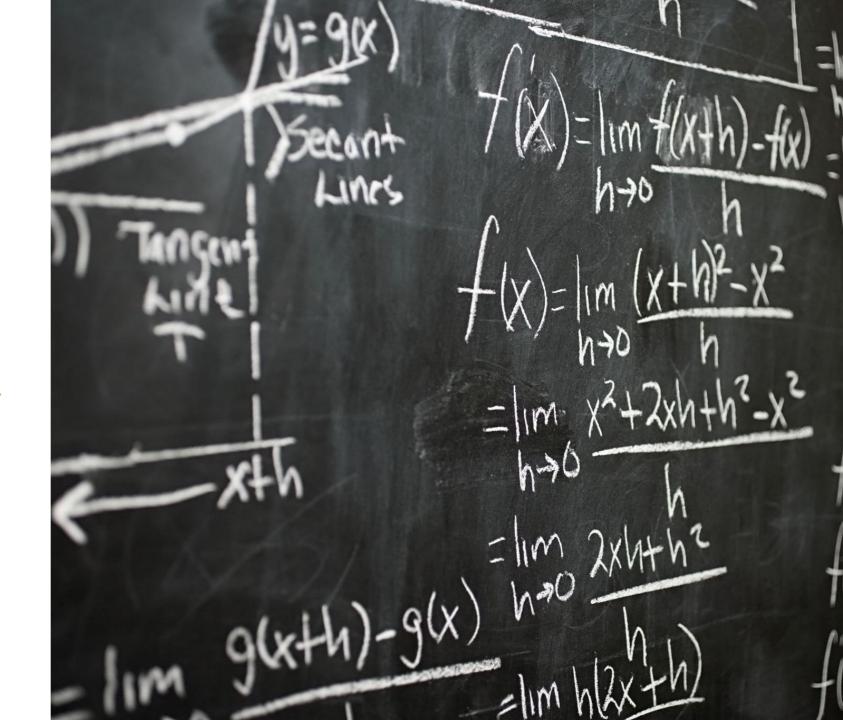
#### **FUNCTIONS**

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# FUNCTION DECLARATIONS

```
function equationOfLine(m, x, b) {
   return (m * x) + b;
}
```

### FUNCTIONS ARE OBJECTS

Name of the object (The function name)

Parameters (Optional)

```
function validateScreenName(screamName) {
```

```
/* This is the function body */
```

## RETURNING A VALUE

```
function validateScreenName(screenName) {
```

Nothing returned? undefined

Parentheses: always used

# NO SEMICOLON

```
function validateName(name) {
```

Semicolon at the end of a function declaration is not required.

#### PARAMETERS

```
const now = new Date();
healthCheck (message, now);

function healthCheck(message) {
  let timestamp = arguments[1] || new Date();
}
```

# PASSING FUNCTIONS AS PARAMETERS

```
function health (message) {
   message = message || 'no message found';
function check(time) {
   let timestamp = time || new Date();
function ping(health, check) {
   heath("Pinging the server");
      check();
```

### SHADOWING

```
flag = 'On'; // Global

function isLucky() {
  var flag = 'Off'; // shadow value!

  return flag === 'On';
}
```

# FUNCTIONS THE CALL STACK

Most recently invoked will be on the top of the call stack.

