

Functions can be written in two forms

Equation Notation

$$y = 2x + 7$$

Function Notation

$$f(x) = 2x + 7$$

$f(x)$ reads “ f of x ”

Function f that is defined as $2x + 7$

Function f is dependent of the value of x

$f(x)$ is the result after plugging x the function f

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Equation Notation

$$y = 2x + 7$$

Function Notation

$$f(x) = 2x + 7$$

x - Input Value y - Output Value

(x, y)

$(x, 2x + 7)$

x - Input Value $f(x)$ - Output Value

$(x, f(x))$

$(x, 2x + 7)$

Evaluating Functions

Determine the value of $f(x)$ at a particular value of x

$$f(x) = 2x + 7$$

when $x = 2$; $f(2)$

when $x = -5$; $f(-5)$

Evaluating Functions

Determine the value of $g(x)$ at a particular value of x

$$g(x) = x^2 - x$$

when $x = 2$; $g(2)$

when $x = -5$; $g(-5)$

Evaluating Functions

Determine the value of $f(x)$ at a particular value of x

$$h(x) = 3|x| + 4$$

when $x = 2$; $h(2)$

when $x = -5$; $h(-5)$

Evaluating Functions

Determine the value of $f(x)$ at a particular value of x

$$f(x) = 2x + 7$$

when $x = 3a$; $f(3a)$

when $x = a + 1$; $f(a + 1)$

when $x = 2$; $f(2)$

when $x = -5$; $f(-5)$

when $x = 8$; $f(8)$

