

Functions can be written in two forms

Equation Notation

$$y = x + 3$$

Function Notation

$$f(x) = x + 3$$

$f(x)$ reads “ f of x ”

Function f that is defined as $x + 3$

Function f is dependent of the value of x

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

What can be determined by the following functions?

$$g(a) = 2a - 4$$

What can be determined by the following functions?

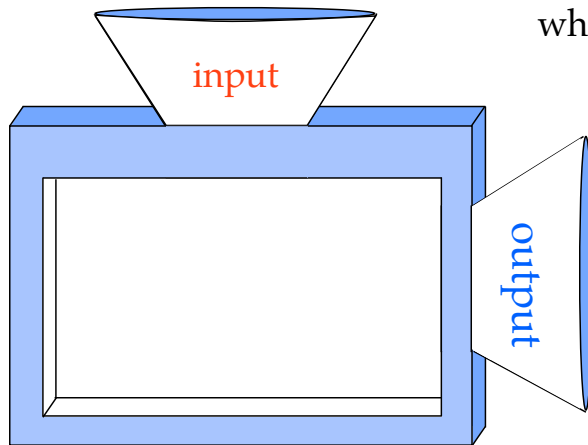
$$h(x) = x^2 + 2x + 8$$

Evaluating Functions

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

$$f(x) = x + 3$$

when $x = 2$;

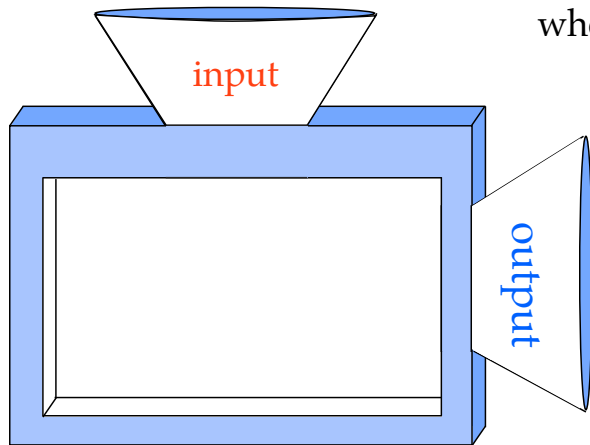


Evaluating Functions

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

$$f(x) = x + 3$$

when $x = 6$;

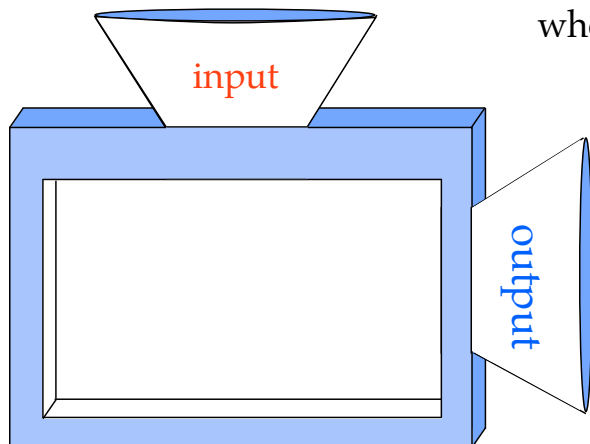


Evaluating Functions

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

$$f(x) = x + 3$$

when $x = -4$;

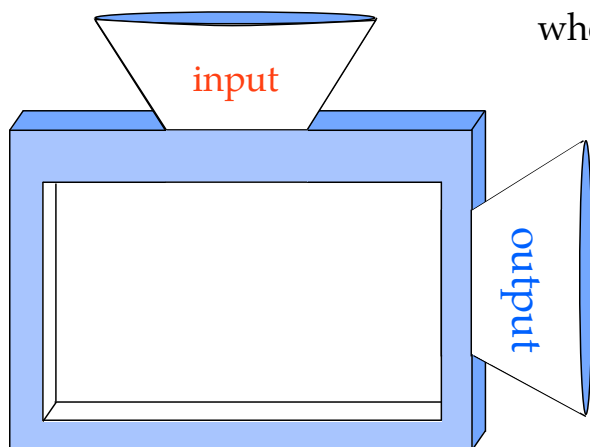


Evaluating Functions

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

$$g(a) = 2a - 4$$

when $a = 3$;

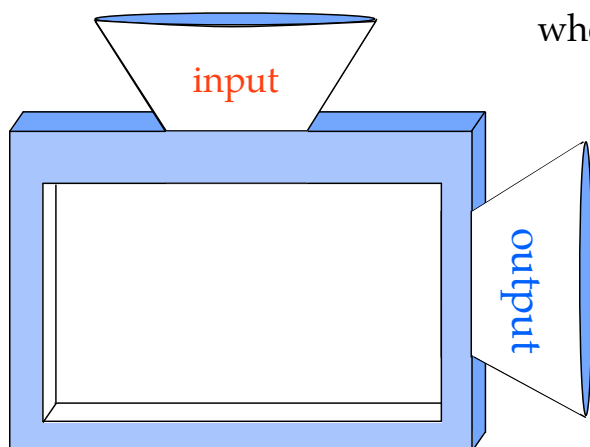


Evaluating Functions

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

$$g(a) = 2a - 4$$

when $a = 7$;

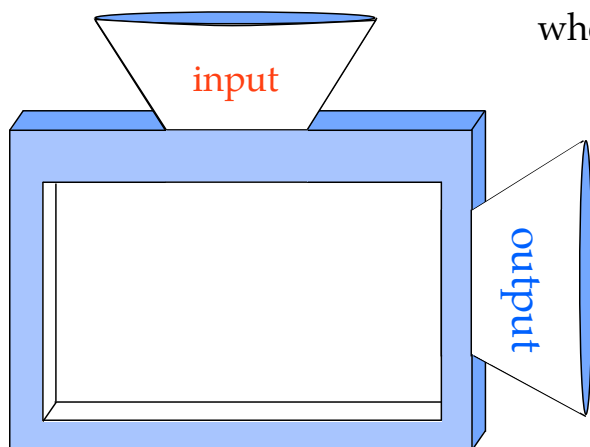


Evaluating Functions

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

$$g(a) = 2a - 4$$

when $a = 2x$;



Evaluating Functions

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

$$h(x) = x^2 + 2x + 8$$

$$h(1) \Rightarrow x = 1;$$

$$h(-2) \Rightarrow x = -2;$$

$$h(3a) \Rightarrow x = 3a;$$

When given a function in function notation

$$f(x) = x + 3$$

Name: Function f

$f(x)$ reads “ f of x ”

Function f that is defined as $x + 3$

Function f is dependent of the value of x

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

Evaluating Functions

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