

The second mapping does not satisfy this condition so we cannot call it a function.

Consider again what we can now call the function such that  $x \rightarrow x^2$ .

Using  $f$  for 'function' and the symbol  $:$  to mean 'such that', we can write  $f: x \rightarrow x^2$  to mean 'f is the function such that  $x$  maps to  $x^2$ '.

We use the notation  $f(x)$  to represent the output values of the function, e.g.

for  $f: x \rightarrow x^2$  we have  $f(x) = x^2$ .

### EXAMPLES 11A

1 Determine whether these mappings are functions.

a.  $x \rightarrow \frac{1}{x}$       b.  $x \rightarrow y$  where  $y^2 - x = 0$

a. For any value of  $x$ , except  $x = 0$ ,  $\frac{1}{x}$  has a single value.

therefore  $x \rightarrow \frac{1}{x}$  is a function provided that  $x = 0$  is excluded.

Note that  $\frac{1}{0}$  is meaningless, so to make this mapping a function we have to exclude 0 as an input value. The function can be described by  $f(x) = \frac{1}{x}, x \neq 0$

b. If, as an example, we input  $x = 4$ , then the output is the value of  $y$  given by  $y^2 - 4 = 0$  i.e.  $y = 2$  and  $y = -2$ .

Therefore an input gives more than one value for the output, so  $x \rightarrow y$  where  $y^2 - x = 0$  is not a function.

2 If  $f(x) = 2x^2 - 5$ , find  $f(3)$  and  $f(-1)$ .

As  $f(x)$  is the output of the mapping,  $f(3)$  is the output when 3 is the input, i.e.  $f(3)$  is the value of  $2x^2 - 5$  when  $x = 3$ .

$$f(3) = 2(3)^2 - 5 = 13$$

$$f(-1) = 2(-1)^2 - 5 = -3$$

### EXERCISE 11A

1 Determine which of these mappings are functions.

a.  $x \rightarrow 2x - 1$

b.  $x \rightarrow x^3 + 3$

c.  $x \rightarrow \frac{1}{x-1}$

d.  $x \rightarrow r$  where  $r^2 = x$

e.  $x \rightarrow \sqrt{x}$

f.  $x \rightarrow$  the length of the line from the origin to  $(0, x)$ .

g.  $x \rightarrow$  the greatest integer less than or equal to  $x$ .

h.  $x \rightarrow$  the height of a triangle whose area is  $x$ .

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