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 $x \longrightarrow x^2$.

Using f for 'function' and the symbol : to mean 'such that', we can write $f : x \longrightarrow x^2$ 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 $f : x \longrightarrow x^2$ we have $f(x) = x^2$.

EXAMPLES 11A

1 Determine whether these mappings are functions.

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

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

therefore $x \longrightarrow \frac{1}{x}$ 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 $x \longrightarrow y$ 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 $x \longrightarrow 2x - 1$

b $x \longrightarrow x^3 + 3$

c $x \longrightarrow \frac{1}{x - 1}$

d $x \longrightarrow t$ where $t^2 = x$

e $x \longrightarrow \sqrt{x}$

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

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

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

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