

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  $x \mapsto x^2$ .

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

$$\text{for } f : x \mapsto x^2 \text{ we have } f(x) = x^2.$$

### EXAMPLES 11A

1 Determine whether these mappings are functions.

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

**a** For any value of  $x$ , except  $x = 0$ ,  $\frac{1}{x}$  has a single value,  
therefore  $x \mapsto \frac{1}{x}$  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  $x \mapsto y$  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**  $x \mapsto 2x - 1$

**b**  $x \mapsto x^3 + 3$

**c**  $x \mapsto \frac{1}{x-1}$

**d**  $x \mapsto t$  where  $t^2 = x$

**e**  $x \mapsto \sqrt{x}$

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

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

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

# Apex Algebra Semester 2 Awnsers Unit 5

**Responsive Education Solutions Staff**



**Apex Algebra Semester 2 Answers Unit 5:**

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web components of vectors for the analytical method of vector addition and subtraction we use some simple geometry and trigonometry instead of using a ruler and protractor as we did for graphical methods however the graphical method will still come in handy to visualize the problem by drawing vectors using the head to tail method

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web numerically the solution is  $\vec{d} = \vec{a} - \vec{b}$   $\vec{d} = \vec{a} - \vec{b}$  find the unit vectors that point from a to the other points b to g in question 2 express each vector in component  $\hat{i}\hat{j}$  notation

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web 2 review of vector analysis electromagnetic field theory is the study of forces between charged particles resulting in energy conversion or signal transmission and reception these forces vary in magnitude and direction with time and throughout space so that the theory is a heavy user of vector differential and integral calculus