

**BRIEF NOTES  
ADDITIONAL MATHEMATICS  
FORM 4**

**CHAPTER 1: FUNCTION**

1.  $f: x \rightarrow x + 3$

$x$  is the object,  $x + 3$  is the image.

$f: x \rightarrow x + 3$  can be written as  
 $f(x) = x + 3$ .

To find the image for 2 means

$$f(2) = 2 + 3 = 5$$

Image for 2 is 5.

Find the object for 8 means  $f(x) = 8$  what is the value of  $x$ ?

$$x + 3 = 8 : x = 5$$

The object is 5.

If the function is written in the form of ordered pairs  $(x, y)$ ,  $x$  is the object and  $y$  is the image.

E.g. (2, 4), (2, 6), (3, 7)

Image for 2 is 4 and 6 whereas object for 7 is 3.



In the arrow diagram, the set of object is {1, 2, 3} and the set of image is {4, 5}

2. For  $f: x \rightarrow \frac{5}{x-3}$ ,  $x-3 \neq 0$ , i.e.  $x \neq 3$

because  $\frac{5}{0}$  is undefined.

Thus, if  $f: x \rightarrow \frac{5}{x-3}$ ,  $x \neq k$  then  $k$  is 3.

3. Function which maps into itself means  $f(x) = x$

If  $f: x \rightarrow \frac{3}{x-2}$ , find the value of  $x$  which is mapped into itself.

$$\frac{3}{x-2} = x$$

$$3 = x(x-2) = x^2 - 2x$$

$$\text{Thus, } x^2 - 2x - 3 = 0$$

$$(x-3)(x+1) = 0$$

$$x = 3 \text{ or } -1$$

3. Inverse Function

Symbol:  $f^{-1}$

To find the inverse function, change  $f(x)$  to  $y$  and find  $x$  in terms of  $y$ .

Given  $f: x \rightarrow \frac{x}{3-x}$ , find  $f^{-1}$

Let  $f(x) = y$

$$y = \frac{x}{3-x} \quad y(3-x) = x$$

$$3y - xy = x$$

$$3y = x + xy$$

$$= x(1+y)$$

$$x = \frac{3y}{1+y}, \text{ thus } f^{-1}(x) = \frac{3x}{1+x}$$

4. Composite Function

Given  $f: x \rightarrow 3x - 4$  and  $g: x \rightarrow 2 - 3x$ .

Find

(a)  $fg(x)$

(b)  $gf(x)$

(c)  $f^{-1}(3)$

(d)  $g^{-1}(4)$

(a)  $fg(x) = f(2 - 3x) = 3(2 - 3x) - 4$   
 $= 6 - 9x - 4 = 2 - 9x$

(b)  $gf(x) = g(3x - 4) = 2 - 3(3x - 4)$   
 $= 2 - 9x + 12 = 14 - 9x$

(c)  $f^{-1}(3) = g(3) = f(9 - 4) = f(5)$   
 $= 15 - 4 = 11.$

(d) Let  $y = 3x - 4$ ,  $x = \frac{y+4}{3}$

$$\text{Thus } f^{-1}(4) = \frac{8}{3}$$

$$g^{-1}(4) = g\left(\frac{8}{3}\right) = 2 - 3 \times \frac{8}{3} = -6$$

5. To find  $f(x)$  or  $g(x)$  given the composite function.

Given  $f(x) = 2x + 8$  and  $fg(x) = 6x + 12$ .

Find  $g(x)$ .

$$f(x) = 2x + 8$$

$$f[g(x)] = 2g(x) + 8$$

$$= 6x + 12$$

$$2g(x) = 6x + 12 - 8$$

$$= 6x + 4$$

$$g(x) = 3x + 2$$

Given  $f(x) = 3x - 5$  and  $gf(x) = 9x^2 - 30x + 30$ , find  $g(x)$

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**D Kirk**

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