

**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 ?

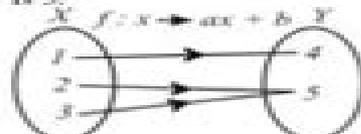
$$x + 3 = 8 \quad ; \quad x = 5$$

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 $f(x) = y$

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

$$3y - xy = x$$

$$3y = x + xy$$

$$= x(1+y)$$

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

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) $gf^{-1}(4)$

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

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

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

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 $h(x) = 3x - 5$ and $gh(x) = 9x^2 - 30x + 30$, find $g(x)$

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