

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 ?

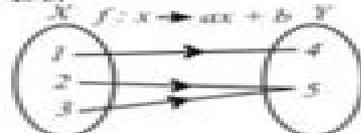
$$x + 3 = 8; \quad x = 5$$

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

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

Add Maths Form 4 Chapter 1 Notes

Terry C. Jones



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Add Maths Form 4 Chapter 1 Notes Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Add Maths Form 4 Chapter 1 Notes**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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