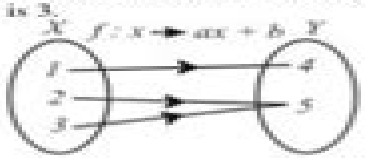
BRIEF NOTES
ADDITIONAL MATHEMATICS
FORM 4

CHAPTER 1: FUNCTION

1. $f : x \to x + 3$
x is the object, $x + 3$ is the image

$f : x \to x + 3$ 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 $f : x \to \frac{5}{x-3}$, $x - 3 \neq 0$, i.e., $x \neq 3$
because $\frac{5}{0}$ is undefined.

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

3. Function which maps into itself means $f(x) = x$
If $f : x \to \frac{3}{x-2}$, find the value of x which is mapped into itself.

$\frac{3}{x-2} = x$
$3 = x(x - 2) = x^2 - 2x$
Thus, $x^2 - 2x - 3 = 0$
$(x - 3)(x + 1) = 0$
$x = 3$ 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 $f : x \to \frac{x}{3-x}$, find f^{-1}
Let $f(x) = y$

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

4. Composite Function
Given $f : x \to 3x - 4$ and $g : x \to 2 - 3x$, find
(a) $fg(x)$
(b) $gf(x)$
(c) $f^2(3)$
(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) $f^2(3) = f[f(3)] = f(9 - 4) = f(5)$
$= 15 - 4 = 11$.
(d) Let $y = 3x - 4$, $x = \frac{y+4}{3}$

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

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

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 $g(x)$

Paper Maths Form 4

Minjie Lin

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Table of Contents Paper Maths Form 4

1. Understanding the eBook Paper Maths Form 4
    - The Rise of Digital Reading Paper Maths Form 4
    - Advantages of eBooks Over Traditional Books
2. Identifying Paper Maths Form 4
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Paper Maths Form 4
    - User-Friendly Interface
4. Exploring eBook Recommendations from Paper Maths Form 4
    - Personalized Recommendations
    - Paper Maths Form 4 User Reviews and Ratings
    - Paper Maths Form 4 and Bestseller Lists
5. Accessing Paper Maths Form 4 Free and Paid eBooks
    - Paper Maths Form 4 Public Domain eBooks
    - Paper Maths Form 4 eBook Subscription Services
    - Paper Maths Form 4 Budget-Friendly Options
6. Navigating Paper Maths Form 4 eBook Formats

- ePub, PDF, MOBI, and More
- Paper Maths Form 4 Compatibility with Devices
- Paper Maths Form 4 Enhanced eBook Features

7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Paper Maths Form 4
   - Highlighting and Note-Taking Paper Maths Form 4
   - Interactive Elements Paper Maths Form 4
8. Staying Engaged with Paper Maths Form 4
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Paper Maths Form 4
9. Balancing eBooks and Physical Books Paper Maths Form 4
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Paper Maths Form 4
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Paper Maths Form 4
    - Setting Reading Goals Paper Maths Form 4
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Paper Maths Form 4
    - Fact-Checking eBook Content of Paper Maths Form 4
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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