

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 ?

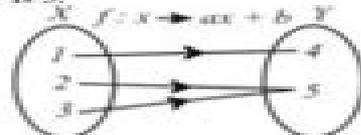
$$x + 3 = 8; \quad x = 5$$

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

(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 $g(x)$

Add Maths Form 4 Chapter 1 Notes

Léo Pomar



Add Maths Form 4 Chapter 1 Notes:

e-O-Level Additional Mathematics Examination Notes Ee Teck Ee, 2013-02-20 This book is written for students who know that they are not doing well in Additional Mathematics and for students who do well but want to do even better The writer has gone through many Additional Mathematics syllabuses and examination papers He has taught for many years as a teacher and tutor He understands the difficulties many students face That is why the book is a very comprehensive summary of all the topics the student needs to learn and covers almost every area where questions will most likely be asked Use it as a reference book to supplement textbooks and teachers teachings or as a guide for quick revision Mastering mathematics taught in secondary schools does not require a genius The most important secret in learning mathematics is in understanding as much as possible what is being taught Your reasoning mind must be convinced You must refuse to be force fed Concepts definitions theorems procedures and symbols must be understood and not accepted blindly only to be regurgitated in homework and examinations They must not be scattered like fallen leaves on the soil of a sterile mind They must be connected to each other like luscious fruits in a bunch of grapes That is how the materials in this book are organized Many topics and methods which are not found elsewhere are explained in detail but a lot of what can already be found in every textbook is excluded Standard forms of formulae are grouped together for easy reference Study each chapter thoroughly before going to the next omitting chapters which are not included in your syllabus This book is a great help to students but it can never replace their relentless efforts If any student refuses to exert his mind then his failure is expected but it is entirely self inflicted Food must be ingested digested and then absorbed assimilated and metabolized Mathematics topics once learned ingested and understood digested must be memorized absorbed associated and integrated with what one has learned before assimilated and put to use by constant practice metabolized Procedures which have already been justified to an inquiring mind must now become automatic in execution Mathematics is not a haphazard collection of formulas and theorems put together for the purpose of setting examination questions It is a supreme achievement of human creativity and ingenuity It is interesting challenging and useful It repays generously every one of its diligent students Passing examination is the least of its rewards

New Syllabus Additional Mathematics Workbook Dr Joseph Yeo, Teh Keng Seng, Loh Cheng Yee, Ivy Chow, 2013-01-01 New Syllabus Additional Mathematics NSAM is a series of textbooks and workbooks designed to prepare students for the Singapore Cambridge GCE O level examination in Additional Mathematics Together with the textbook the workbook will provide students with ample practice to apply the various skills and concepts learnt to solving problems in both examination and real life situations The workbook contains the following features REVISION NOTES Revision Notes are found at the start of each chapter They emphasise the important concepts and formulae in the chapter PRACTICE QUESTIONS Practice Questions provide students with a wide range of questions for further practice The questions are classified into three levels of difficulty questions require students to use specific skills and concepts in the chapter directly to

solve problems questions require students to apply their skills and concepts to solve problems questions require students to apply various skills and concepts including the use of problem solving skills to solve problems Revision Exercise The Revision Exercise is found after every few chapters to help students to recall and consolidate all the concepts learnt in these chapters Mid Year Specimen Papers and End of Year Specimen Papers The Mid Year Specimen Papers and End of Year Specimen Papers have been written to follow closely to the format of school s Mid Year and End of Year examinations It is hoped that when students use this book to reinforce the concepts that they are weak in they will eventually gain success in Additional Mathematics

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Table of Contents Add Maths Form 4 Chapter 1 Notes

1. Understanding the eBook Add Maths Form 4 Chapter 1 Notes
 - The Rise of Digital Reading Add Maths Form 4 Chapter 1 Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Add Maths Form 4 Chapter 1 Notes
 - 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 Add Maths Form 4 Chapter 1 Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Add Maths Form 4 Chapter 1 Notes
 - Personalized Recommendations
 - Add Maths Form 4 Chapter 1 Notes User Reviews and Ratings
 - Add Maths Form 4 Chapter 1 Notes and Bestseller Lists
5. Accessing Add Maths Form 4 Chapter 1 Notes Free and Paid eBooks
 - Add Maths Form 4 Chapter 1 Notes Public Domain eBooks
 - Add Maths Form 4 Chapter 1 Notes eBook Subscription Services
 - Add Maths Form 4 Chapter 1 Notes Budget-Friendly Options
6. Navigating Add Maths Form 4 Chapter 1 Notes eBook Formats

- ePub, PDF, MOBI, and More
 - Add Maths Form 4 Chapter 1 Notes Compatibility with Devices
 - Add Maths Form 4 Chapter 1 Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Add Maths Form 4 Chapter 1 Notes
 - Highlighting and Note-Taking Add Maths Form 4 Chapter 1 Notes
 - Interactive Elements Add Maths Form 4 Chapter 1 Notes
8. Staying Engaged with Add Maths Form 4 Chapter 1 Notes
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Add Maths Form 4 Chapter 1 Notes
9. Balancing eBooks and Physical Books Add Maths Form 4 Chapter 1 Notes
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Add Maths Form 4 Chapter 1 Notes
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Add Maths Form 4 Chapter 1 Notes
- Setting Reading Goals Add Maths Form 4 Chapter 1 Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Add Maths Form 4 Chapter 1 Notes
- Fact-Checking eBook Content of Add Maths Form 4 Chapter 1 Notes
 - 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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