

AS-Level

Topic : Functions

May 2013 - May 2022

Question 1

The function  $f$  is defined by  $f : x \mapsto 2x + k$ ,  $x \in \mathbb{R}$ , where  $k$  is a constant.

- (i) In the case where  $k = 3$ , solve the equation  $ff(x) = 25$ . [2]

The function  $g$  is defined by  $g : x \mapsto x^2 - 6x + 8$ ,  $x \in \mathbb{R}$ .

- (ii) Find the set of values of  $k$  for which the equation  $f(x) = g(x)$  has no real solutions. [3]

The function  $h$  is defined by  $h : x \mapsto x^2 - 6x + 8$ ,  $x > 3$ .

- (iii) Find an expression for  $h^{-1}(x)$ . [4]

Question 2

- (i) Express  $2x^2 - 12x + 13$  in the form  $a(x + b)^2 + c$ , where  $a$ ,  $b$  and  $c$  are constants. [3]

- (ii) The function  $f$  is defined by  $f(x) = 2x^2 - 12x + 13$  for  $x \geq k$ , where  $k$  is a constant. It is given that  $f$  is a one-one function. State the smallest possible value of  $k$ . [1]

The value of  $k$  is now given to be 7.

- (iii) Find the range of  $f$ . [1]

- (iv) Find an expression for  $f^{-1}(x)$  and state the domain of  $f^{-1}$ . [5]

Question 3

The function  $f$  is defined by  $f : x \mapsto x^2 + 4x$  for  $x \geq c$ , where  $c$  is a constant. It is given that  $f$  is a one-one function.

- (i) State the range of  $f$  in terms of  $c$  and find the smallest possible value of  $c$ . [3]

The function  $g$  is defined by  $g : x \mapsto ax + b$  for  $x \geq 0$ , where  $a$  and  $b$  are positive constants. It is given that, when  $c = 0$ ,  $gf(1) = 11$  and  $fg(1) = 21$ .

- (ii) Write down two equations in  $a$  and  $b$  and solve them to find the values of  $a$  and  $b$ . [6]

Question 4

Solve the inequality  $x^2 - x - 2 > 0$ . [3]

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**Victor M. Corman**



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## **Table of Contents Igcse O Level Pure Maths Question Paper Jan 24**

1. Understanding the eBook Igcse O Level Pure Maths Question Paper Jan 24
  - The Rise of Digital Reading Igcse O Level Pure Maths Question Paper Jan 24
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse O Level Pure Maths Question Paper Jan 24
  - 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 Igcse O Level Pure Maths Question Paper Jan 24
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse O Level Pure Maths Question Paper Jan 24
  - Personalized Recommendations
  - Igcse O Level Pure Maths Question Paper Jan 24 User Reviews and Ratings
  - Igcse O Level Pure Maths Question Paper Jan 24 and Bestseller Lists
5. Accessing Igcse O Level Pure Maths Question Paper Jan 24 Free and Paid eBooks

- Igcse O Level Pure Maths Question Paper Jan 24 Public Domain eBooks
- Igcse O Level Pure Maths Question Paper Jan 24 eBook Subscription Services
- Igcse O Level Pure Maths Question Paper Jan 24 Budget-Friendly Options
- 6. Navigating Igcse O Level Pure Maths Question Paper Jan 24 eBook Formats
  - ePub, PDF, MOBI, and More
  - Igcse O Level Pure Maths Question Paper Jan 24 Compatibility with Devices
  - Igcse O Level Pure Maths Question Paper Jan 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Igcse O Level Pure Maths Question Paper Jan 24
  - Highlighting and Note-Taking Igcse O Level Pure Maths Question Paper Jan 24
  - Interactive Elements Igcse O Level Pure Maths Question Paper Jan 24
- 8. Staying Engaged with Igcse O Level Pure Maths Question Paper Jan 24
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Igcse O Level Pure Maths Question Paper Jan 24
- 9. Balancing eBooks and Physical Books Igcse O Level Pure Maths Question Paper Jan 24
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Igcse O Level Pure Maths Question Paper Jan 24
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse O Level Pure Maths Question Paper Jan 24
  - Setting Reading Goals Igcse O Level Pure Maths Question Paper Jan 24
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse O Level Pure Maths Question Paper Jan 24
  - Fact-Checking eBook Content of Igcse O Level Pure Maths Question Paper Jan 24
  - 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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