

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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Table of Contents Maths Statistics 2013 May Past Paper

1. Understanding the eBook Maths Statistics 2013 May Past Paper
 - The Rise of Digital Reading Maths Statistics 2013 May Past Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Statistics 2013 May Past Paper
 - 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 Maths Statistics 2013 May Past Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Statistics 2013 May Past Paper
 - Personalized Recommendations
 - Maths Statistics 2013 May Past Paper User Reviews and Ratings
 - Maths Statistics 2013 May Past Paper and Bestseller Lists
5. Accessing Maths Statistics 2013 May Past Paper Free and Paid eBooks
 - Maths Statistics 2013 May Past Paper Public Domain eBooks

- Maths Statistics 2013 May Past Paper eBook Subscription Services
- Maths Statistics 2013 May Past Paper Budget-Friendly Options
- 6. Navigating Maths Statistics 2013 May Past Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Statistics 2013 May Past Paper Compatibility with Devices
 - Maths Statistics 2013 May Past Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Statistics 2013 May Past Paper
 - Highlighting and Note-Taking Maths Statistics 2013 May Past Paper
 - Interactive Elements Maths Statistics 2013 May Past Paper
- 8. Staying Engaged with Maths Statistics 2013 May Past Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Statistics 2013 May Past Paper
- 9. Balancing eBooks and Physical Books Maths Statistics 2013 May Past Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Statistics 2013 May Past Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Statistics 2013 May Past Paper
 - Setting Reading Goals Maths Statistics 2013 May Past Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Statistics 2013 May Past Paper
 - Fact-Checking eBook Content of Maths Statistics 2013 May Past Paper
 - 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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