

Subject - Math AA(Standard Level)

Topic - Functions

Year - May 2021 - Nov 2022

Paper -1

Questions

Question 1

[Maximum mark: 5]

The functions f and g are defined such that $f(x) = \frac{x+3}{4}$ and $g(x) = 8x+5$.

(a) Show that $(g \circ f)(x) = 2x + 11$. [2]

(b) Given that $(g \circ f)^{-1}(a) = 4$, find the value of a . [3]

Question 2

[Maximum mark: 14]

Let $f(x) = mx^2 - 2mx$, where $x \in \mathbb{R}$ and $m \in \mathbb{R}$. The line $y = mx - 9$ meets the graph of f at exactly one point.

(a) Show that $m = 4$. [6]

The function f can be expressed in the form $f(x) = 4(x-p)(x-q)$, where $p, q \in \mathbb{R}$.

(b) Find the value of p and the value of q . [2]

The function f can also be expressed in the form $f(x) = 4(x-h)^2 + k$, where $h, k \in \mathbb{R}$.

(c) Find the value of h and the value of k . [3]

(d) Hence find the values of x where the graph of f is both negative and increasing. [3]

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Table of Contents Mathematics Standard Level Paper November 201

1. Understanding the eBook Mathematics Standard Level Paper November 201
 - The Rise of Digital Reading Mathematics Standard Level Paper November 201
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Standard Level Paper November 201
 - 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 Mathematics Standard Level Paper November 201
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Standard Level Paper November 201
 - Personalized Recommendations
 - Mathematics Standard Level Paper November 201 User Reviews and Ratings
 - Mathematics Standard Level Paper November 201 and Bestseller Lists
5. Accessing Mathematics Standard Level Paper November 201 Free and Paid eBooks

- Mathematics Standard Level Paper November 201 Public Domain eBooks
- Mathematics Standard Level Paper November 201 eBook Subscription Services
- Mathematics Standard Level Paper November 201 Budget-Friendly Options
- 6. Navigating Mathematics Standard Level Paper November 201 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Standard Level Paper November 201 Compatibility with Devices
 - Mathematics Standard Level Paper November 201 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Standard Level Paper November 201
 - Highlighting and Note-Taking Mathematics Standard Level Paper November 201
 - Interactive Elements Mathematics Standard Level Paper November 201
- 8. Staying Engaged with Mathematics Standard Level Paper November 201
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Standard Level Paper November 201
- 9. Balancing eBooks and Physical Books Mathematics Standard Level Paper November 201
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Standard Level Paper November 201
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Standard Level Paper November 201
 - Setting Reading Goals Mathematics Standard Level Paper November 201
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Standard Level Paper November 201
 - Fact-Checking eBook Content of Mathematics Standard Level Paper November 201
 - 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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