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 = f)⁻¹(a) = 4, find the value of a.
 [3]

Ouestion 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.

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 $f(x) = 4(x - k)^2 + k$, 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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- 1. Understanding the eBook May 2013 Ib Paper Sl
 - ∘ The Rise of Digital Reading May 2013 Ib Paper Sl
 - Advantages of eBooks Over Traditional Books
- 2. Identifying May 2013 Ib Paper Sl
 - 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 May 2013 Ib Paper Sl
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from May 2013 Ib Paper Sl
 - Personalized Recommendations
 - May 2013 Ib Paper Sl User Reviews and Ratings
 - May 2013 Ib Paper Sl and Bestseller Lists
- 5. Accessing May 2013 Ib Paper Sl Free and Paid eBooks
 - $\circ\,$ May 2013 Ib Paper Sl Public Domain eBooks
 - May 2013 Ib Paper Sl eBook Subscription Services
 - o May 2013 Ib Paper Sl Budget-Friendly Options
- 6. Navigating May 2013 Ib Paper Sl eBook Formats

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