

Subject – Math AA(Higher 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: 5]

The following diagram shows the graph of $y = f(x)$. The graph has a horizontal asymptote at $y = -1$. The graph crosses the x -axis at $x = -1$ and $x = 1$, and the y -axis at $y = 2$.



On the following set of axes, sketch the graph of $y = [f(x)]^2 + 1$, clearly showing any asymptotes with their equations and the coordinates of any local maxima or minima.

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Michael Wood Daly



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Table of Contents Answers Math Paper 2 Ib 2013

1. Understanding the eBook Answers Math Paper 2 Ib 2013
 - The Rise of Digital Reading Answers Math Paper 2 Ib 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Math Paper 2 Ib 2013
 - 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 Answers Math Paper 2 Ib 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Math Paper 2 Ib 2013
 - Personalized Recommendations

- Answers Math Paper 2 Ib 2013 User Reviews and Ratings
- Answers Math Paper 2 Ib 2013 and Bestseller Lists
- 5. Accessing Answers Math Paper 2 Ib 2013 Free and Paid eBooks
 - Answers Math Paper 2 Ib 2013 Public Domain eBooks
 - Answers Math Paper 2 Ib 2013 eBook Subscription Services
 - Answers Math Paper 2 Ib 2013 Budget-Friendly Options
- 6. Navigating Answers Math Paper 2 Ib 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Math Paper 2 Ib 2013 Compatibility with Devices
 - Answers Math Paper 2 Ib 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Math Paper 2 Ib 2013
 - Highlighting and Note-Taking Answers Math Paper 2 Ib 2013
 - Interactive Elements Answers Math Paper 2 Ib 2013
- 8. Staying Engaged with Answers Math Paper 2 Ib 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Math Paper 2 Ib 2013
- 9. Balancing eBooks and Physical Books Answers Math Paper 2 Ib 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Math Paper 2 Ib 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Math Paper 2 Ib 2013
 - Setting Reading Goals Answers Math Paper 2 Ib 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Math Paper 2 Ib 2013
 - Fact-Checking eBook Content of Answers Math Paper 2 Ib 2013

- 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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