# Subject - Math AA(Higher Level) Topic - Functions Year - May 2021 - Nov 2022 Paper -1 Questions

#### Question 1

[Maximum mark: 5]

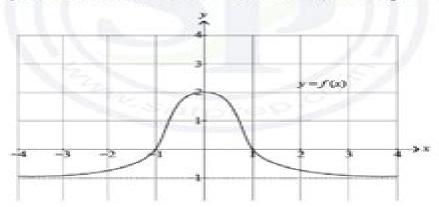
The functions f and g are defined such that  $f(x) = \frac{x+3}{4}$  and g(x) = 8x + 5.

- (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.

# **Answers Math Paper 2 Ib 2013**

**E Durkheim** 

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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
  - $\circ\,$  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
  - o 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
  - o 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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