

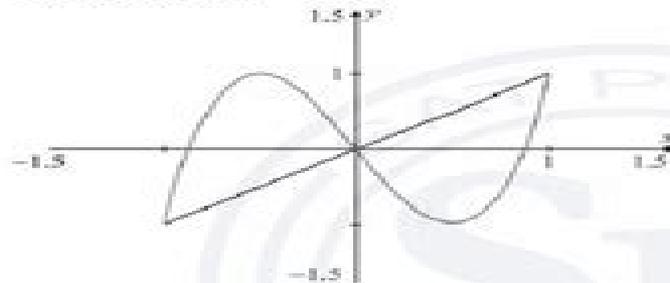
Subject - Math AA(Higher Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -3
Answers

Question 1

- (a) correct graph of $y = f_1(x)$
 correct graph of $y = f_2(x)$

A1

A1



[2 marks]

- (b) (i) graphical or tabular evidence that f_n has been systematically varied
 eg $n = 3$, 1 local maximum point and 1 local minimum point
 $n = 5$, 2 local maximum points and 2 local minimum points
 $n = 7$, 3 local maximum points and 3 local minimum points
 $\frac{n-1}{2}$ local maximum points

M1

(A1)

A1

- (ii) $\frac{n-1}{2}$ local minimum points

A1

Note: Allow follow through from an incorrect local maximum formula expression.

[4 marks]

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David Kirk



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Table of Contents Ib Math HL Paper 3 2012

1. Understanding the eBook Ib Math HL Paper 3 2012
 - The Rise of Digital Reading Ib Math HL Paper 3 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math HL Paper 3 2012
 - 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 Ib Math HL Paper 3 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math HL Paper 3 2012
 - Personalized Recommendations
 - Ib Math HL Paper 3 2012 User Reviews and Ratings
 - Ib Math HL Paper 3 2012 and Bestseller Lists
5. Accessing Ib Math HL Paper 3 2012 Free and Paid eBooks
 - Ib Math HL Paper 3 2012 Public Domain eBooks
 - Ib Math HL Paper 3 2012 eBook Subscription Services
 - Ib Math HL Paper 3 2012 Budget-Friendly Options

6. Navigating Ib Math HL Paper 3 2012 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Math HL Paper 3 2012 Compatibility with Devices
 - Ib Math HL Paper 3 2012 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Math HL Paper 3 2012
 - Highlighting and Note-Taking Ib Math HL Paper 3 2012
 - Interactive Elements Ib Math HL Paper 3 2012
8. Staying Engaged with Ib Math HL Paper 3 2012
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Math HL Paper 3 2012
9. Balancing eBooks and Physical Books Ib Math HL Paper 3 2012
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Math HL Paper 3 2012
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Math HL Paper 3 2012
 - Setting Reading Goals Ib Math HL Paper 3 2012
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Math HL Paper 3 2012
 - Fact-Checking eBook Content of Ib Math HL Paper 3 2012
 - 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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