

Subject - Math AA(Standard Level)
Topic - Number and Algebra
Year - May 2021 - Nov 2022
Paper -1
Answers

Question 1

- (a) attempting to use the change of base rule

M1

$$\log_3(\cos 2x + 2) = \frac{\log_2(\cos 2x + 2)}{\log_2 9}$$

A1

$$= \frac{1}{2} \log_3(\cos 2x + 2)$$

A1

$$= \log_3 \sqrt{\cos 2x + 2}$$

AG

[3 marks]

- (b) $\log_3(2 \sin x) = \log_3 \sqrt{\cos 2x + 2}$

M1

$$2 \sin x = \sqrt{\cos 2x + 2}$$

A1

$$4 \sin^2 x = \cos 2x + 2 \quad (\text{or equivalent})$$

(*M1*)

$$\text{use of } \cos 2x = 1 - 2 \sin^2 x$$

$$6 \sin^2 x = 3$$

$$\sin x = \left(\pm \right) \frac{1}{\sqrt{2}}$$

A1

$$x = \frac{\pi}{4}$$

A1

Note: Award *A0* if solutions other than $x = \frac{\pi}{4}$ are included.

[5 marks]

Total [8 marks]

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Table of Contents Ib Math Sl Paper 23

1. Understanding the eBook Ib Math Sl Paper 23
 - The Rise of Digital Reading Ib Math Sl Paper 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Sl Paper 23
 - 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 Sl Paper 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Sl Paper 23
 - Personalized Recommendations
 - Ib Math Sl Paper 23 User Reviews and Ratings

- Ib Math Sl Paper 23 and Bestseller Lists
- 5. Accessing Ib Math Sl Paper 23 Free and Paid eBooks
 - Ib Math Sl Paper 23 Public Domain eBooks
 - Ib Math Sl Paper 23 eBook Subscription Services
 - Ib Math Sl Paper 23 Budget-Friendly Options
- 6. Navigating Ib Math Sl Paper 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Math Sl Paper 23 Compatibility with Devices
 - Ib Math Sl Paper 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Math Sl Paper 23
 - Highlighting and Note-Taking Ib Math Sl Paper 23
 - Interactive Elements Ib Math Sl Paper 23
- 8. Staying Engaged with Ib Math Sl Paper 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Math Sl Paper 23
- 9. Balancing eBooks and Physical Books Ib Math Sl Paper 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Math Sl Paper 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Math Sl Paper 23
 - Setting Reading Goals Ib Math Sl Paper 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Math Sl Paper 23
 - Fact-Checking eBook Content of Ib Math Sl Paper 23
 - 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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