

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

$$= \frac{1}{2} \log_2(\cos 2x + 2)$$

A1

$$= \log_2 \sqrt{\cos 2x + 2}$$

AG

[3 marks]

- (b) $\log_2(2 \sin x) = \log_2 \sqrt{\cos 2x + 2}$

M1

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

A1

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

(*M1*)

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

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

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

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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Liyong Dong



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Table of Contents Math Sl Paper 1 2013 Answer Key

1. Understanding the eBook Math Sl Paper 1 2013 Answer Key
 - The Rise of Digital Reading Math Sl Paper 1 2013 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Sl Paper 1 2013 Answer Key
 - 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 Math Sl Paper 1 2013 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Sl Paper 1 2013 Answer Key
 - Personalized Recommendations
 - Math Sl Paper 1 2013 Answer Key User Reviews and Ratings
 - Math Sl Paper 1 2013 Answer Key and Bestseller Lists
5. Accessing Math Sl Paper 1 2013 Answer Key Free and Paid eBooks
 - Math Sl Paper 1 2013 Answer Key Public Domain eBooks

- Math Sl Paper 1 2013 Answer Key eBook Subscription Services
- Math Sl Paper 1 2013 Answer Key Budget-Friendly Options
- 6. Navigating Math Sl Paper 1 2013 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Sl Paper 1 2013 Answer Key Compatibility with Devices
 - Math Sl Paper 1 2013 Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Sl Paper 1 2013 Answer Key
 - Highlighting and Note-Taking Math Sl Paper 1 2013 Answer Key
 - Interactive Elements Math Sl Paper 1 2013 Answer Key
- 8. Staying Engaged with Math Sl Paper 1 2013 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Sl Paper 1 2013 Answer Key
- 9. Balancing eBooks and Physical Books Math Sl Paper 1 2013 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Sl Paper 1 2013 Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Math Sl Paper 1 2013 Answer Key
 - Setting Reading Goals Math Sl Paper 1 2013 Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math Sl Paper 1 2013 Answer Key
 - Fact-Checking eBook Content of Math Sl Paper 1 2013 Answer Key
 - 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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