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 $\log_2(\cos 2x + 2) = \frac{\log_2(\cos 2x + 2)}{\log_2(\cos 2x + 2)}$
	$\log_{4}(\cos 2x + 2) = \frac{2}{\log_{3} 9}$
	$=\frac{1}{2}\log_2(\cos 2\pi + 2)$
	$=\log_9\sqrt{\cos 2x+2}$

[3 marks]

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

 $2\sin x = \sqrt{\cos 2x + 2}$ (or equivalent)

Use of $\cos 2x - 1 - 2\sin^2 x$
(M1)

 $6\sin^2 x = 3$
 $\sin x = (\pm)\frac{1}{\sqrt{2}}$

A1

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

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

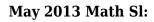
[5 marks]

Total [8 marks]

M1 A1 A1

May 2013 Math Sl

Emilie Sanchez



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Table of Contents May 2013 Math Sl

- 1. Understanding the eBook May 2013 Math Sl
 - The Rise of Digital Reading May 2013 Math Sl
 - Advantages of eBooks Over Traditional Books
- 2. Identifying May 2013 Math Sl
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an May 2013 Math Sl
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from May 2013 Math Sl
 - Personalized Recommendations
 - May 2013 Math Sl User Reviews and Ratings
 - May 2013 Math Sl and Bestseller Lists
- 5. Accessing May 2013 Math Sl Free and Paid eBooks
 - May 2013 Math Sl Public Domain eBooks
 - May 2013 Math Sl eBook Subscription Services
 - May 2013 Math Sl Budget-Friendly Options
- 6. Navigating May 2013 Math Sl eBook Formats

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