

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]

May 2013 Math Sl Paper

Puja Mehta



May 2013 Math SI Paper :

The book delves into May 2013 Math Sl Paper . May 2013 Math Sl Paper is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into May 2013 Math Sl Paper , encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to May 2013 Math Sl Paper
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- Chapter 3: May 2013 Math Sl Paper in Everyday Life
- Chapter 4: May 2013 Math Sl Paper in Specific Contexts
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