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 $\log_2(\cos 2x + 2) = \frac{\log_2(\cos 2x + 2)}{\log_2(\cos 2x + 2)}$
	$\log_{4}(\cos 2x + 2) = \frac{2}{\log_{3} 9}$
	$=\frac{1}{2}\log_2(\cos 2\pi + 2)$
	$=\log_3\sqrt{\cos 2x+2}$

[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

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