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 $log_4(\cos 2x + 2) = \frac{log_4(\cos 2x + 2)}{log_4(\cos 2x + 2)}$
	and the first
	$=\frac{1}{2}\log_3(\cos 2\pi + 2)$
	$=\log_2\sqrt{\cos 2x}+2$

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

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

[5 marks]

[3 marks]

Total [8 marks]

M1 A1 A1

AT

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Jørgen Ellegaard Andersen,Andrew Dancer,Oscar García-Prada

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