# 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  |
|     | $=\frac{1}{2}\log_3(\cos 2x+2)$  |
|     | $=\log_2\sqrt{\cos 2x}+2$  |

(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]

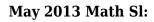
Total [8 marks]

M1 A1 A1

AT

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