

**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*

$$= \frac{1}{2} \log_3(\cos 2x + 2)$$

*A1*

$$= \log_3 \sqrt{\cos 2x + 2}$$

*AG*

[3 marks]

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

*M1*

$$2 \sin x = \sqrt{\cos 2x + 2}$$

*A1*

$$4 \sin^2 x = \cos 2x + 2 \quad (\text{or equivalent})$$

(*M1*)

$$\text{use of } \cos 2x = 1 - 2 \sin^2 x$$

$$6 \sin^2 x = 3$$

$$\sin x = \left( \pm \right) \frac{1}{\sqrt{2}}$$

*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 SI Paper 1

**Anthony S. Fauci**



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