

Subject – Math(Higher Level)
 Topic - Vector
 Year - Nov 2011 – Nov 2019
 Paper 2

Question 1

$$\begin{pmatrix} \alpha & 1 & 1 \\ 1 & \alpha & 1 \\ 1 & 1 & \alpha \end{pmatrix}$$

(M1)

$$= \alpha \begin{vmatrix} \alpha & 1 \\ 1 & \alpha \end{vmatrix} - \begin{vmatrix} 1 & 1 & 1 & \alpha \\ 1 & \alpha & 1 & 1 \end{vmatrix}$$

(A1)

$$= \alpha(\alpha^2 - 1) - (\alpha - 1) + (1 - \alpha)$$

A1

$$= \alpha^2 - 3\alpha + 2$$

M1

$$\text{set } \alpha^2 - 3\alpha + 2 = 0$$

A1A1

$$\Rightarrow \alpha = -2 ; \alpha = 1$$

R1

hence the system has a unique solution for all reals such that
 $\alpha \neq -2 ; \alpha \neq 1$

Ans: Award **R1** for their values of α .

[7 marks]



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