

Subject – Math (Standard Level)
 Topic - Vector
 Year - Nov 2011 – Nov 2017
 Paper- 1

Question 1

- 4(a) (i) evidence of approach (M1)
 e.g. $\vec{PQ} + \vec{CQ}$, $\vec{P} = \vec{Q}$
- $$\vec{PQ} = \begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix} \quad \text{A1} \quad \text{N2}$$

- (ii) any correct equation in the form $r = a + sb$ (accept any parameter for s)
 where a is $\begin{pmatrix} 2 \\ 4 \\ 8 \end{pmatrix}$ or $\begin{pmatrix} 4 \\ 5 \\ 4 \end{pmatrix}$, and b is a scalar multiple of $\begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix}$ A2 N2
- e.g. $r = \begin{pmatrix} 2 \\ 4 \\ 8 \end{pmatrix} + s \begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix}$, $r = \begin{pmatrix} 4 + 2s \\ 5 - 1s \\ 4 - 4s \end{pmatrix}$, $r = 2i + 4j + 8k + s(2i + 1j - 4k)$

Note: Award A1 for the form $a + sb$, A1 for $L = a + sb$, A0 for $r = b + sa$.

[4 marks]

- 4(b) (i) choosing correct direction vectors for L_1 and L_2 (A1)(A1)
 e.g. $\begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix}$, $\begin{pmatrix} 3p \\ 2p \\ 4 \end{pmatrix}$
- evidence of equating scalar product to 0 (M1)
 correct calculation of scalar product A1
 e.g. $2 \times 3p + 1 \times 2p + (-4) \times 4$, $8p = 16 \Rightarrow 0$
- $p = 2$ A1 N2

- (ii) any correct expression in the form $r = a + tb$ (accept any parameter for t)
 where a is $\begin{pmatrix} 10 \\ 6 \\ -40 \end{pmatrix}$, and b is a scalar multiple of $\begin{pmatrix} 6 \\ 4 \\ -4 \end{pmatrix}$ A2 N2
- e.g. $r = \begin{pmatrix} 10 \\ 6 \\ -40 \end{pmatrix} + t \begin{pmatrix} 6 \\ 4 \\ -4 \end{pmatrix}$, $r = \begin{pmatrix} 10 + 6t \\ 6 + 4t \\ -40 - 4t \end{pmatrix}$, $r = 10i + 6j - 40k + t(6i + 4j - 4k)$

Note: Award A1 for the form $a + tb$, A1 for $L = a + tb$ (unless they have been penalised for $L = a + sb$ in part (a)), A0 for $r = b + sa$.

[7 marks]

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