

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

Question 2

- (a) (i) evidence of approach (M1)  
e.g.  $\vec{PO} + \vec{OQ}$ ,  $P - Q$
- $$\vec{PQ} = \begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix} \quad \text{A1} \quad \text{N2}$$
- (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.  $r = \begin{pmatrix} 2 \\ 4 \\ 8 \end{pmatrix} + s \begin{pmatrix} 2 \\ 1 \\ -4 \end{pmatrix}$ ,  $r = \begin{pmatrix} 4+2s \\ 5+s \\ 4-4s \end{pmatrix}$ ,  $r = 2i + 4j + 8k + s(2i + j - 4k)$
- Note: Award A1 for the form  $a + sb$ , A1 for  $L = a + sb$ , A0 for  $r = b + sa$ .
- [4 marks]
- (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.  $2 \times 3p + 1 \times 2p + (-4) \times 4 = 8p - 16 = 0$
- $p = 2$  A1 N3
- (ii) any correct expression in the form  $r = a + sb$  (accept any parameter for  $r$ )  
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.  $r = \begin{pmatrix} 10 \\ 6 \\ -40 \end{pmatrix} + r \begin{pmatrix} 6 \\ 4 \\ 4 \end{pmatrix}$ ,  $r = \begin{pmatrix} 10+6s \\ 6+4s \\ -40+4s \end{pmatrix}$ ,  $r = 10i + 6j - 40k + s(6i + 4j + 4k)$
- Note: Award A1 for the form  $a + sb$ , A1 for  $L = a + sb$  (unless they have been penalised for  $L = a + sb$  in part (a)), A0 for  $r = b + sa$ .
- [7 marks]

# Vectors Ib Sl Past Papers

**Robert R. Redfield**



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