

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 $r = a + sb$ (accept any parameter for s)
 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. $r = \begin{pmatrix} 10 \\ 6 \\ -40 \end{pmatrix} + s \begin{pmatrix} 6 \\ 4 \\ -4 \end{pmatrix}$, $r = \begin{pmatrix} 10 + 6s \\ 6 + 4s \\ -40 - 4s \end{pmatrix}$, $r = 10i + 6j - 40k + s(6i + 4j - 4k)$

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]

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More Trouble with Maths Steve Chinn, 2020-03-24 Now in an updated third edition this invaluable resource takes a practical and accessible approach to identifying and diagnosing many of the factors that contribute to mathematical learning difficulties and dyscalculia Using a combination of formative and summative approaches it provides a range of norm referenced standardised tests and diagnostic activities each designed to reveal common error patterns and misconceptions in order to form a basis for intervention Revised to reflect developments in the understanding of learning difficulties in mathematics the book gives a diagnostic overview of a range of challenges to mathematical learning including difficulties in grasping and retaining facts problems with mathematics vocabulary and maths anxiety Key features of this book include Photocopiable tests and activities designed to be presented in a low stress way Guidance on the interpretation of data allowing diagnosis and assessment to become integrated into everyday teaching Sample reports showing the diagnostic tests in practice Drawing on tried and tested methods as well as the author's extensive experience and expertise this book is written in an engaging and user friendly style It is a vital resource for anyone who wants to accurately identify the depth and nature of mathematical learning difficulties and dyscalculia [Computational Geomechanics and Hydraulic Structures](#)

Sheng-Hong Chen, 2018-06-21 This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period Based on the results of a close collaboration between the author and his colleagues friends students and field engineers it shows how to achieve a good correlation between numerical computation and the actual in situ behavior of hydraulic structures The book's heuristic and visualized style disseminates the philosophy and road map as well as the findings of the research The chapters reflect the various aspects of the three typical and practical methods the finite element method the block element method the composite element method that the author has been working on and made essential contributions to since the 1980s This book is an advanced continuation of Hydraulic Structures by the same author published by Springer in 2015

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