

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

Question 1

- 1(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]

- 1(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]

May 2013 Math Sl

Michael Seilmaier



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Secondary Maths in Action Emma McCrea, 2025-07-11 In *Secondary Maths in Action* experienced curriculum expert and maths teacher Emma McCrea offers insights into the complex task of teaching maths Taking an evidence informed stance Emma first explores the age old question of why we study maths and the important role it plays in our lives and in society Next she examines several pertinent debates in maths those of pupil grouping mastery and gender Finally we are taken on a grand tour of curriculum pedagogy and assessment as the fundamental pillars of great teaching Additionally the book includes four rich case studies revisited throughout the curriculum pedagogy and assessment chapters which help to showcase how these ideas can be applied in various contexts so you can really see what it all looks like In *Action*

Abstract Mathematical Cognition Wolfgang Grodd, Philippe Chassy, 2016-08-09 Despite the importance of mathematics in our educational systems little is known about how abstract mathematical thinking emerges Under the uniting thread of mathematical development we hope to connect researchers from various backgrounds to provide an integrated view of abstract mathematical cognition Much progress has been made in the last 20 years on how numeracy is acquired Experimental psychology has brought to light the fact that numerical cognition stems from spatial cognition The findings from neuroimaging and single cell recording experiments converge to show that numerical representations take place in the intraparietal sulcus Further research has demonstrated that supplementary neural networks might be recruited to carry out subtasks for example the retrieval of arithmetic facts is done by the angular gyrus Now that the neural networks in charge of basic mathematical cognition are identified we can move onto the stage where we seek to understand how these basics skills are used to support the acquisition and use of abstract mathematical concepts

Numerical Development - From cognitive functions to neural underpinnings Korbinian Moeller, Elise Klein, Klaus F Willmes - von Hinckeldey, Karin Kucian, 2015-02-24 Living at the beginning of the 21st century requires being numerate because numerical abilities are not only essential for life prospects of individuals but also for economic interests of post industrial knowledge societies Thus numerical development is at the core of both individual as well as societal interests There is the notion that we are already born with a very basic ability to deal with small numerosities Yet this often called number sense seems to be very restricted approximate and driven by perceptual constraints During our numerical development in formal e g school but also informal contexts e g family street we acquire culturally developed abstract symbol systems to represent exact numerosities in particular number words and Arabic digits refining our numerical capabilities In recent years numerical development has gained increasing research interest documented in a growing number of behavioural neuro scientific educational cross cultural and neuropsychological studies addressing this issue Additionally our understanding of how numerical competencies develop has also benefitted considerably from the advent of different neuro imaging techniques allowing for an evaluation of developmental changes in the human brain In sum we are now starting to put together a more and more coherent picture of

how numerical competencies develop and how this development is associated with neural changes as well In the end this knowledge might also lead to a better understanding of the reasons for atypical numerical development which often has grievous consequences for those who suffer from developmental dyscalculia or mathematics learning disabilities Therefore this Research Topic deals with all aspects of numerical development findings from behavioural performance to underlying neural substrates from cross sectional to longitudinal evaluations from healthy to clinical populations To this end we included empirical contributions using different experimental methodologies but also theoretical contributions review articles or opinion papers

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