

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. $r = \begin{pmatrix} 10 \\ 6 \\ -40 \end{pmatrix} + t \begin{pmatrix} 6 \\ 4 \\ 4 \end{pmatrix}$, $r = \begin{pmatrix} 10+6s \\ 6+4s \\ -40+4s \end{pmatrix}$, $r = 10i + 6j - 40k + s(6i + 4j + 4k)$
- 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

V. S. Varadarajan



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Physics for the IB Diploma Tim Kirk, 2003 Developed for the 2007 course outline This study guide for the IB Diploma Physics exam was expertly written by a chief examiner and covers all the Core and Optional materials at both Standard and Higher level Highly illustrated this guide contains clear concise review of processes terms and concepts with practice exercises modeled on exam question types This guide is perfect as both a study aide for coursework and as a review guide for the IB examination IB Biology Revision Workbook Roxanne Russo, 2019-10-31 Based on the 2014 DP Biology course the IB Biology Revision Workbook is intended for use by students at any stage of the two year course The workbook includes a wide variety of revision tasks covering topics of the Standard Level Core Additional Higher Level and each of the four Options The tasks include skills and applications taken directly from the guide as well as activities aimed at consolidating learning A section on examination preparation and other useful tools is a part of this workbook **A Pilot Standard**

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between the physical and mathematical points of view This book presents the proceedings from the workshop Vertex Operator Algebras in Mathematics and Physics held at The Fields Institute It consists of papers based on many of the talks given at the conference by leading experts in the algebraic geometric and physical aspects of vertex operator algebra theory The book is suitable for graduate students and research mathematicians interested in the major themes and important developments on the frontier of research in vertex operator algebra theory and its applications in mathematics and physics

Physics Briefs ,1994 **Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Volume 2, Regional Aspects** Intergovernmental Panel on Climate Change (IPCC),2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

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