

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

Question 2

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

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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

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Mathematical Reviews, 2008

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Vertex Operator Algebras in Mathematics and Physics Stephen Berman, Vertex operator algebras are a class of algebras underlying a number of recent constructions results and themes in mathematics These algebras can be understood as string theoretic analogues of Lie algebras and of commutative associative algebras They play fundamental roles in some of the most active research areas in mathematics and physics Much recent progress in both physics and mathematics has benefited from cross pollination 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

Parasiticide Screening Alan A. Marchiondo,Larry R. Cruthers,Josephus J. Fourie,2019-06-08 Parasiticide Discovery In Vitro and In Vivo Tests with Relevant Parasite Rearing and Host Infection Infestation Methods Volume Two presents valuable screening methods that have led to the discovery of the majority of parasiticides commercialized in the animal health industry As much of the knowledge of parasiticide discovery methods is being lost in the animal health industry as seasoned parasitologists retire this book serves to preserve valuable methods that have led to the discovery of the majority of parasiticides commercialized in animal health also giving insights into the in vitro and in vivo methods used to identify the parasiticide activity of compounds Addresses current issues of resistance along with combination uses for resistant parasites Presents useful authoritative information chemical pharmaceutical clinical etc for the pyrantel family of compounds Includes a discussion on screening methods in combination therapies Provides cutting edge material for an evolving area of scientific discussion Includes in vitro and in vivo screens and parasite maintenance and culture methods **Supersymmetry for**

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,1976-10 **Chemometrik** K. Danzer, H. Hoberg, C. Fischbacher, K.-U. Jagemann, 2013-03-07 Klaus Danzers Chemometrik Grundlagen und Anwendungen füllt eine Lücke im deutschsprachigen Lehrbuchmarkt. Es spannt den Bogen von der uni- und multivariaten Statistik bis hin zu neuronalen Netzen und genetischen Algorithmen und konzentriert sich auf die Analyse analytisch-chemischer und chemisch-experimenteller Daten. Es bietet Studenten und bereits in der Praxis tätigen Einsteigern die Möglichkeit, sich in die Grundlagen ohne überflüssigen theoretischen Ballast einzuarbeiten und viele existierende oder potentielle Anwendungsfelder kennenzulernen. Dem Fachmann bietet es einen systematischen Überblick über alle Schritte des analytischen Prozesses einschliessend überblick auch Versuchsplanung, Optimierung, Signal- und Bildverarbeitung, Qualitätssicherung und Rentabilitätsbetrachtungen werden ausreichend berücksichtigt. Besonderer Wert wurde auf die Anschaulichkeit der Darstellung der Zusammenhänge zwischen den Methoden und der Praxisrelevanz gelegt. *Scientific and Technical Books in Print*, 1972

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