

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

M Walker



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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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Table of Contents Vectors Ib Sl Past Papers

1. Understanding the eBook Vectors Ib Sl Past Papers
 - The Rise of Digital Reading Vectors Ib Sl Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Vectors Ib Sl Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vectors Ib Sl Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vectors Ib Sl Past Papers
 - Personalized Recommendations
 - Vectors Ib Sl Past Papers User Reviews and Ratings
 - Vectors Ib Sl Past Papers and Bestseller Lists
5. Accessing Vectors Ib Sl Past Papers Free and Paid eBooks

- Vectors Ib Sl Past Papers Public Domain eBooks
- Vectors Ib Sl Past Papers eBook Subscription Services
- Vectors Ib Sl Past Papers Budget-Friendly Options
- 6. Navigating Vectors Ib Sl Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Vectors Ib Sl Past Papers Compatibility with Devices
 - Vectors Ib Sl Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vectors Ib Sl Past Papers
 - Highlighting and Note-Taking Vectors Ib Sl Past Papers
 - Interactive Elements Vectors Ib Sl Past Papers
- 8. Staying Engaged with Vectors Ib Sl Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vectors Ib Sl Past Papers
- 9. Balancing eBooks and Physical Books Vectors Ib Sl Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vectors Ib Sl Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Vectors Ib Sl Past Papers
 - Setting Reading Goals Vectors Ib Sl Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vectors Ib Sl Past Papers
 - Fact-Checking eBook Content of Vectors Ib Sl Past Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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