Subject - Math(Higher Level) Topic - Vector Year - Nov 2011 - Nov 2019

Question 1

[Maximum mark: 15]

- (a) For non-zero vectors a and b, show that
 - (i) if |a-b| = |a+b|, then a and b are perpendicular;
 - (ii) $\|\mathbf{a} \times \mathbf{b}\|^2 = \|\mathbf{a}\|^2 \|\mathbf{b}\|^2 (\mathbf{a} \cdot \mathbf{b})^2$.

[18] meaning!

- (b) The points A, B and C have position vectors at b and c.
 - (i) Show that the area of triangle ABC is $\frac{1}{2} a \times b + b \times c + c \times a$.
 - (ii) Hence, show that the shortest distance from B to AC is

$$\begin{vmatrix} a \times b + b \times c + c \times a \end{vmatrix}$$

 $\begin{vmatrix} c - a \end{vmatrix}$

[7] marke]

Question 2

[Maximum mark: 3]

Find the values of x for which the vectors $\begin{pmatrix} 1 \\ 2\cos x \\ 0 \end{pmatrix}$ and $\begin{pmatrix} -1 \\ 2\sin x \\ 1 \end{pmatrix}$ are perpendicular, $0 \le x \le \frac{\pi}{2}$.

Question 3

VMaximum mark: 61

Two boots, A and B, move so that at time t hours, their position vectors, in kilometres, are $\mathbf{r}_s = (9t)\mathbf{i} + (3-6t)\mathbf{j}$ and $\mathbf{r}_s = (7-4t)\mathbf{i} + (7t-6)\mathbf{j}$.

(a) Find the coordinates of the common point of the paths of the two boats.

14 marks1

(b) Show that the boats do not collide.

[2 marks]

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- 1. Understanding the eBook 14 Nov Ib Hl Math Papers
 - The Rise of Digital Reading 14 Nov Ib Hl Math Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Nov Ib Hl Math 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 14 Nov Ib Hl Math Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Nov Ib Hl Math Papers
 - Personalized Recommendations
 - 14 Nov Ib Hl Math Papers User Reviews and Ratings
 - 14 Nov Ib Hl Math Papers and Bestseller Lists
- 5. Accessing 14 Nov Ib Hl Math Papers Free and Paid eBooks
 - 14 Nov Ib Hl Math Papers Public Domain eBooks
 - 14 Nov Ib Hl Math Papers eBook Subscription Services
 - 14 Nov Ib Hl Math Papers Budget-Friendly Options
- 6. Navigating 14 Nov Ib Hl Math Papers eBook Formats

- ePub, PDF, MOBI, and More
- 14 Nov Ib Hl Math Papers Compatibility with Devices
- 14 Nov Ib Hl Math Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Nov Ib Hl Math Papers
 - Highlighting and Note-Taking 14 Nov Ib Hl Math Papers
 - Interactive Elements 14 Nov Ib Hl Math Papers
- 8. Staying Engaged with 14 Nov Ib Hl Math Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Nov Ib Hl Math Papers
- 9. Balancing eBooks and Physical Books 14 Nov Ib Hl Math Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Nov Ib Hl Math Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Nov Ib Hl Math Papers
 - Setting Reading Goals 14 Nov Ib Hl Math Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Nov Ib Hl Math Papers
 - Fact-Checking eBook Content of 14 Nov Ib Hl Math 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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