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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