

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

Question 1

$$\begin{aligned}
 (a) \quad (i) \quad & |a-b| = |a+b| \\
 & \Rightarrow (a-b) \cdot (a-b) = (a+b) \cdot (a+b) \\
 & \Rightarrow |a|^2 - 2a \cdot b + |b|^2 = |a|^2 + 2a \cdot b + |b|^2 \\
 & \Rightarrow 4a \cdot b = 0 \Rightarrow a \cdot b = 0 \\
 & \text{therefore } a \text{ and } b \text{ are perpendicular.}
 \end{aligned}$$

(M1)
A1
A1
R1

Notes: Allow use of 2-d components.

Notes: Do not consider sloppy vector notation, as we must see something to the effect that $|a|^2 = a \cdot a$ is clearly being used for the M1.

Notes: Allow a correct geometric argument, for example that the diagonals of a parallelogram have the same length only if it is a rectangle.

$$\begin{aligned}
 (ii) \quad & |a \times b|^2 = (|a||b|\sin\theta)^2 = |a|^2|b|^2\sin^2\theta \quad \text{M1A1} \\
 & |a|^2|b|^2 - (a \cdot b)^2 = |a|^2|b|^2 - |a|^2|b|^2\cos^2\theta \quad \text{M1} \\
 & = |a|^2|b|^2(1 - \cos^2\theta) \quad \text{A1} \\
 & = |a|^2|b|^2\sin^2\theta \\
 & \Rightarrow |a \times b|^2 = |a|^2|b|^2 - (a \cdot b)^2 \quad \text{AG}
 \end{aligned}$$

[5 marks]

$$\begin{aligned}
 (b) \quad (i) \quad & \text{area of triangle} = \frac{1}{2} |\vec{AB} \times \vec{AC}| \quad \text{(M1)} \\
 & = \frac{1}{2} |(b-a) \times (c-a)| \quad \text{A1} \\
 & = \frac{1}{2} |b \times c + b \times -a + -a \times c + -a \times -a| \quad \text{A1} \\
 & b \times -a = a \times b, \quad c \times a = -a \times c, \quad -a \times -a = 0 \quad \text{M1} \\
 & \text{hence, area of triangle is } \frac{1}{2} |a \times b + b \times c + c \times a| \quad \text{AG}
 \end{aligned}$$

$$\begin{aligned}
 (ii) \quad & D \text{ is the foot of the perpendicular from B to AC} \\
 & \text{area of triangle } \triangle ABC = \frac{1}{2} |\vec{AC}| |\vec{BD}| \quad \text{A1} \\
 & \text{therefore} \\
 & \frac{1}{2} |\vec{AC}| |\vec{BD}| = \frac{1}{2} |\vec{AB} \times \vec{AC}| \quad \text{M1} \\
 & \text{hence, } |\vec{BD}| = \frac{|\vec{AB} \times \vec{AC}|}{|\vec{AC}|} \quad \text{A1} \\
 & = \frac{|a \times b + b \times c + c \times a|}{|c-a|} \quad \text{AG}
 \end{aligned}$$

[7 marks]

Total [15 marks]

Ib Math HL Paper 1 201

G Orfield



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web aug 6 2023 by default etc passwd has 644 permission and the file is owned by root user the file is readable to all users of the system but editable only by someone who has root access or a sudo user to view detailed information about etc passwd

file such as size access permissions use stat command stat etc passwd

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