

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.

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

M1A1  
M1  
A1  
AG  
[5 marks]

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

(M1)  
A1  
A1  
M1  
AG

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

A1  
M1  
A1  
AG

[7 marks]

Total [15 marks]

# Mathematics Hl Paper 1 Tz

**Padhraic Smyth**



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activities in the supply chain management of medical products

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web the good storage and distribution practices would facilitate the movement of the drug product throughout the supply  
chain that is controlled measured and analyzed for continuous improvements and should maintain the integrity of the drug  
product in its packaging during storage and distribution 1

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web jan 1 2010 good storage practices similar to other gxp environments good storage practices require the discipline and attention to critical details such as regulatory and industry compliance data management and quality and risk management good storage practices should be described in standard operating procedures sops to ensure that

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web good storage practice gsp is a system for ensuring that products are consistently produced and being stored according to national international guidelines or standards it is designed to minimize the risks involved in any food and pharmaceutical production that cannot be eliminated through testing the final product

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web jul 3 2022 to better regulate the process and ultimately protect consumer rights the world health organisation who has the most representative and universal guidelines on healthcare product storage transportation distribution and trade good distribution practices gdp and good storage and distribution practices gsdp

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web the document is designed to give a balanced overview of the major aspects of good storage and distribution practice for tspps as such it deliberately includes references to requirements which can be found in general guides to good manufacturing practice gmp good storage practice gsp and good distribution practice gdp

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web every activity in the storage and distribution of medical products should be carried out according to the principles of good manufacturing practices gmp 1 or applicable standard such as iso 13485 for medical devices 2 good storage practices gsp 3 and good distribution practices gdp 4 as applicable