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

Question 1

(40 (6)	$a-b \mid -\mid a+b \mid$	
	$\Rightarrow (a-b)\cdot (a-b) = (a+b)\cdot (a+b)$	(2007)
	$> \alpha ^2 - 2a \cdot b + b ^2 - \alpha ^2 + 2a \cdot b + b ^2$.5.7
	$\rightarrow 4a \cdot b = 0 \rightarrow a \cdot b = 0$	4.1
	therefore a and b are perpendicular	R1

Note: Allow use of 2-d components.

Do not consider sloppy vector notation, so we must see something to the effect that $\mathbf{eff} = \mathbf{c.c}$ is clearly being used for the SII.

Allow a correct geometric argument, for example that the diagonals of a parallelogram have the same length only if it by in proglimmy liet.

(ii)
$$a \times b \mid^2 - (|a|b \sin \theta)^2 - |a|^2 |b|^2 \sin^2 \theta$$
 MIAI
 $a \mid^2 b \mid^2 - (a \cdot b)^2 = |a|^2 |b|^2 - |a|^2 |b|^2 \cos^2 \theta$ MI
 $= |a|^2 |b|^2 (1 - \cos^2 \theta)$ AI
 $= |a \times b|^2 - |a|^2 |b|^2 \sin^2 \theta$
 $\Rightarrow |a \times b|^2 - |a|^2 |b|^2 - (a \cdot b)^2$ AG

18 marks!

(b) (i) area of triangle
$$=\frac{1}{2}|AB \times ACI|$$
 (MI)
$$=\frac{1}{2}|(b-a) \times (c-a)|$$
 AB
$$=\frac{1}{2}|b \times c + b \times -a + -a \times c + -a \times -a$$
 AB
$$b \times -a = a \times b ; c \times a = -a \times c ; -a \times -a = 0$$
 MI bence, area of triangle is $\frac{1}{2}|a \times b + b \times c + c \times a|$ AG

- D is the foot of the perpendicular from B to AC area of triangle ABC - LACIBDI -5.8 therefore. 1 IACHBDI 1 IAB × ACI 341
 - bence, $|BD| = \frac{|AB \times AC|}{|AC|}$ $= \frac{|a \times b b \times c c \times a|}{|c a|}$ A16

$$-\frac{\|a \times b - b \times c - c \times a\|}{\|c - a\|}$$
AG

[7 marks]

Total [15 marks]

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