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

Question 1

0.00	(ii) $a - b = a$	4.6	
	$\Longrightarrow (a-b)$	$(a-b)=(a+b)\cdot (a+b)$	(2000)
	$ a ^2 - 2a \cdot b + b ^2 - a ^2 + 2a \cdot b + b ^2$ $\Rightarrow 4a \cdot b - 0 \Rightarrow a \cdot b = 0$ therefore a and b are perpendicular		.5.1
			-0.7
			Ft.I
	Note: Allow us	se 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
 $= |a|^2 |b|^2 \sin^2 \theta$
 $\Rightarrow |a \times b|^2 = |a|^2 |b|^2 - (a \cdot b)^2$ AG

18 marks!

(b) (i) area of triangle
$$=\frac{1}{2}|AB \times ACI|$$
 (MI)
$$-\frac{1}{2}|(b-a) \times (c-a)|$$
 AF
$$=\frac{1}{2}|b \times c + b \times -a + -a \times c + -a \times -a$$
 AF
$$b \times -a = a \times b ; c \times a = -a \times c ; -a \times -a = 0$$
 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 - TLACIBDI -5.8 therefore. 1 IACHBDI 1 IAB × ACI 341

bence,
$$|BD| = \frac{|AB \times AC|}{|AC|}$$

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

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

[7 marks]

Total [15 marks]

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