9	The points A , B and C have coordinates $(-4, 4)$, $(1, 6)$ and $(-2, -1)$ respectively.			
	(a) Show, by calculation, that AB is perpendicular to AC .	(4)		
	(b) Find an equation for BC in the form $px + qy + r = 0$, where p, q and r are integers.			
	The live Lie decrease of color biocease of AD	(3)		
	The line l is the perpendicular bisector of AB .			
	(c) Find an equation for <i>l</i> .	(4)		
	The line l and the line BC intersect at the point E .			
	(d) Find the coordinates of E .	(0)		
		(2)		
	(e) Calculate the area of triangle AEC.	(4)		

۰	
	j
**************************************	4
	ł
	1
	1
	Ĵ
	1
	į
	į
	i
	1
	ì
	1
	4
	i
	1
	ł
	i
	j
	į
	1
	J
	1
	j
	7
	j
	ŝ
	4
	j
	ļ
	•
	٠
	٠
	٠
1	
ì	k
Q	9
ż	1
١	ĸ
(J
è	K
4	Š
1	1
Ì	×
۷,	4
1	1
Ì	k
ĺ,	i
×	ï
١	×
ĺ	ì
	ļ
	k
	× × × × × × × × × × × × × × × × × × ×
	× × × × × × × × × × × × × × × × × × ×
	× × × × × × × × × × × × × × × × × × ×
	× × × × × × × × × × × × × × × × × × ×

Question 9 continued	



Question 9 continued	

Question 9 continued
(Total for Question 9 is 17 marks)

