I field the the first	five terms of a	sequence.				
	-1	0	3	8	15	
Find an express	ion, in terms of	n, for the n th	term of th	is sequence.		
				(Total for	Question 1 is 2 marks)	

2	Here are the first six terms	of a quad	dratic s	sequence	C .			
		-1	5	15	29	47	69	
	Find an expression, in term	as of n , for	or the	nth term	of this	sequer	ce.	
_						(Total	for Question 2 is 3	marks)
_						(Total	for Question 2 is 3	marks)
_						(Total	for Question 2 is 3	marks)
						(Total	for Question 2 is 3	marks)
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						(Total	for Question 2 is 3	marks)

3	Here are the first five terms of a	quadrat	ic seque	ence.		
		10	21	38	61	90
	Find an expression, in terms of	<i>n</i> , for the	he <i>n</i> th to	erm of 1	this seq	uence.
					(Tot	al for Question 3 is 3 marks)

4 He	ere are the first five to	erms of a seq	uence.			
		4	11	22	37	56
F	find an expression, in	terms of n , i	for the <i>n</i> th	term of th	is sequenc	ce.
					(Total fo	or Question 4 is 3 marks)
					(Total fo	or Question 4 is 3 marks)
					(Total fo	or Question 4 is 3 marks)
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5	The <i>n</i> th term of a sequence is given by $an^2 + bn$ where a and b are integers.
	The 2nd term of the sequence is -2 The 4th term of the sequence is 12
	(a) Find the 6th term of the sequence.
	(4)
	Here are the first five terms of a different quadratic sequence.
	0 2 6 12 20
	(b) Find an expression, in terms of n , for the n th term of this sequence.
	(2)
	(Total for Question 5 is 6 marks)

6	Here are the first five	terms of	a geometr	ic sequence.			
		$\sqrt{5}$	10	$20\sqrt{5}$	200	$400\sqrt{5}$	
	(a) Work out the nex	kt term of	the seque	nce.			
			1				
							(2)
	The 4th term of a di	fferent oed	ometric se	guence is =	$\sqrt{2}$		
				quence is	4		
	The 6th term of this	sequence	is $\frac{3\sqrt{2}}{8}$				
	Given that the terms	of this se	quence ar	e all positive	,		
	(b) work out the firs			nce.			
	You must show a	ılı your w	orking.				
							(3)
					(Total	for Question (o is 5 marks)
					(2000)	2	······································

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7	The 2nd term of a geometric sequence is $3 + 2\sqrt{2}$ The 3rd term of the sequence is $13 + 9\sqrt{2}$
	Find the value of the common ratio of the sequence. Give your answer in the form $a + \sqrt{b}$ where a and b are integers. You must show all your working.
_	(Total for Question 7 is 4 marks)