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The Nth Term of a Quadratic Sequence

Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	The Nth Term of a Quadratic Sequence
Grade Level	Grade 8/9
Booklet	Question Paper

Time Allowed: 53 minutes

Score: /44

Percentage: /100

Grade Boundaries:

1. Write down the next two terms in the following quadratic sequence.									
		9,	13,	19,	27				
									(2)
							•••••	• • • • • • • •	. (2)
Write quence.	down the	e nex	t two	terr	ns in th	ne fo	llowi	ng qua	dratic
		- 5	, 0,	9,	22				

3.	The nth	term	of a	sequence	is

$$2n^2 + 4n - 1$$

Work out the 10th term of the sequence

.....(2)

4. The nth term of a sequence is

$$n^2 + 2n$$

Work out the first 5 terms in the sequence

5.	Work out the formula for the nth term of the
qu	adratic sequence:

5, 11, 19, 29...

..... (4)

6. Work out the formula for the nth term of the quadratic sequence:

2, 10, 22, 38...

7.	Work out the	formula	for	the	nth	term	of	the
qu	iadratic sequer	nce:						

15, 19, 25, 33...

.....(4)

8. Work out the formula for the nth term of the quadratic sequence:

2, 10, 24, 44...

9.	Work out the	formula	for	the	nth	term	of	the
qu	iadratic sequer	ice:						

.....(4)

10. Work out the formula for the nth term of the quadratic sequence:

-2, -1, 1, 4...

11. A	quadratic	sequence	starts:
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6, 10, 16, 24...

a) Show that the nth term is $n^2 + n + 4$

.....(4)

b) Hence find the term that has value 136

12.	A	quadratic	sequence	starts:
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-8, 2, 16, 34...

a) Show that the nth term is $2n^2 + 4n - 14$

.....(4)

b) Hence find the term that has value 272

.....(2)