

1. Here are the first five terms of a sequence together with its expression for the n th term

6	12	22	36	54	$2n^2 + 4$
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Match these five expression for the n th term of a sequence with the five sequences in the table.

$$n^2 + 2 \quad 4n^2 + 8 \quad -2n^2 - 4 \quad 2n^2 + 6 \quad 2n^2 + 1$$

a	3	9	19	33	51	
b	12	24	44	72	108	
c	8	14	24	38	56	
d	3	6	11	18	27	
e	-6	-12	-22	-36	-54	

2. Here are the first five terms of a sequence.

$$2 \quad 5 \quad 10 \quad 17 \quad 26$$

An expression for the n th term of this sequence is $n^2 + 1$

Write down in terms of n , an expression for the n th term of a sequence whose first five terms are

$$7 \quad 10 \quad 15 \quad 22 \quad 31 \quad \dots$$

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3. Here are the first five terms of a sequence.

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An expression for the n th term of this sequence is $14 - 2n^2$

Write down in terms of n , an expression for the n th term of a sequence whose first five terms are

8 2 -8 -22 -40

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4. Here are the first five terms of a sequence.

3 0 -9 -24 -45

An expression for the n th term of this sequence is $6n - 3n^2$

Write down in terms of n , an expression for the n th term of a sequence whose first five terms are

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sequenceOther (8) Answers 1a) $2n^2 + 1$ b) $4n^2 + 8$ c) $2n^2 + 6$ d) $n^2 + 2$ e) $-2n^2 - 4$
2) $n^2 + 6$ 3) $10 - 2n^2$ 4) $-6n + 3n^2$

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