1. Write down the next two terms in the following quadratic sequence.

$9,\ 13,\ 19,\ 27\ldots$

..... (2)

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2. Write down the next two terms in the following quadratic sequence.

$-5,\ 0,\ 9,\ 22\ldots$

..... (2)

3. The nth term of a sequence is

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

Work out the 10th term of the sequence

..... (2)

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4. The nth term of a sequence is

$$n^2 + 2n$$

Work out the first 5 terms in the sequence

..... (2)

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

5, 11, 19, 29...

..... (4)

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

2, 10, 22, 38...

..... (4)

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

15, 19, 25, 33...

..... (4)

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

2, 10, 24, 44...

..... (4)

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

$$19,\ 15,\ 9,\ 1...$$

..... (4)

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

$$-2,\ -1,\ 1,\ 4...$$

..... (4)

11. A quadratic sequence starts:

$$6,\ 10,\ 16,\ 24\ldots$$

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

..... (4)

b) Hence find the term that has value 136

..... (2)

12. A quadratic sequence starts:

$$-8,\ \ 2,\ \ 16,\ \ 34...$$

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

..... (4)

b) Hence find the term that has value 272

..... (2)