

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

9, 13, 19, 27...

..... (2)

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

-5, 0, 9, 22...

..... (2)

3. The n th term of a sequence is

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

Work out the 10th term of the sequence

..... (2)

4. The n th 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 n th term of the quadratic sequence:

5, 11, 19, 29...

..... (4)

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

2, 10, 22, 38...

..... (4)

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

15, 19, 25, 33...

..... (4)

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

2, 10, 24, 44...

..... (4)

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

$$19, 15, 9, 1\dots$$

..... (4)

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

$$-2, -1, 1, 4\dots$$

..... (4)

11. A quadratic sequence starts:

6, 10, 16, 24...

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

..... (4)

b) Hence find the term that has value 136

..... (2)

12. A quadratic sequence starts:

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

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

..... (4)

b) Hence find the term that has value 272

..... (2)