

The n th Term of a Quadratic Sequence *fluency*



Find the n th term of each sequence

1 2, 5, 10, 17, ...

2 -2, 1, 6, 13, ...

3 6, 9, 14, 21, ...

4 0, 3, 8, 15, ...

5 11, 14, 19, 26, ...

6 -6, -3, 2, 9, ...



Find the n th term of each sequence

7 2, 8, 18, 32, ...

8 3, 12, 27, 48, ...

9 5, 20, 45, 80, ...

10 4, 16, 36, 64, ...

11 0.5, 2, 4.5, 8, ...

12 10, 40, 90, 160, ...



Find the n th term of each sequence

13 3, 8, 15, 24, ...

14 0, 2, 6, 12, ...

15 5, 14, 27, 44, ...

16 6, 14, 24, 36, ...

17 1, 8, 21, 40, ...

18 -3, -2, 3, 12, ...



Find the n th term of each sequence

19 6, 12, 20, 30, ...

20 5, 10, 19, 32, ...

21 3, 2, 3, 6, ...

22 3, 13, 29, 51, ...

23 4, 15, 30, 49, ...

24 5, 2, 1, 2, ...



Write the first five terms

25 $2n^2 - n + 3$

26 $n^2 + 4n - 2$

27 $3n^2 - 5$

28 $10 - n^2$

29 $\frac{n^2}{2} + n$

30 $n(n + 1)$