

## Finding the nth Term of a Quadratic Sequence

Find the nth term:

- |                          |                                |
|--------------------------|--------------------------------|
| 1. 2, 8, 18, 32, 50 ...  | 9. $-4, 3, 16, 35, 60 \dots$   |
| 2. 3, 9, 19, 33, 51 ...  | 10. $-6, -5, -2, 3, 10 \dots$  |
| 3. 4, 11, 22, 37, 56 ... | 11. $-1, 0, 3, 8, 15, \dots$   |
| 4. 5, 13, 25, 41, 61 ... | 12. $0, 2, 6, 12, 20 \dots$    |
| 5. 4, 12, 24, 40, 60 ... | 13. $0, 1, 3, 6, 10 \dots$     |
| 6. 3, 8, 15, 24, 35 ...  | 14. $0, 10, 30, 60, 100 \dots$ |
| 7. 5, 16, 33, 56, 85 ... | 15. $-1, 8, 27, 56, 95 \dots$  |
| 8. 0, 11, 28, 51, 80 ... | 16. $-5, 4, 23, 52, 91 \dots$  |

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## Finding the nth Term of a Quadratic Sequence: ANSWERS

1.  $2n^2$

9.  $3n^2 - 2n - 5$

2.  $2n^2 + 1$

10.  $n^2 - 2n - 5$

3.  $2n^2 + n + 1$

11.  $n^2 - 2n$

4.  $2n^2 + 2n + 1$

12.  $n^2 - n$

5.  $2n^2 + 2n$

13.  $\frac{1}{2}n^2 - \frac{1}{2}n$

6.  $n^2 + 2n$

14.  $5n^2 - 5n$

7.  $3n^2 + 2n$

15.  $5n^2 - 6n$

8.  $3n^2 + 2n - 5$

16.  $5n^2 - 6n - 4$

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