**Finding the nth Term of a Quadratic Sequence**

Find the nth term:

1. $2, 8, 18, 32, 50…$

2. $3, 9, 19, 33, 51…$

3. $4, 11, 22, 37, 56…$

4. $5, 13, 25, 41, 61…$

5. $4, 12, 24, 40, 60…$

6.$ 3, 8, 15, 24, 35…$

7. $5, 16, 33, 56, 85…$

8. $0, 11, 28, 51, 80…$

9. $-4, 3, 16, 35, 60…$

10. $-6, -5, -2, 3, 10…$

11. $-1, 0, 3, 8, 15,…$

12. $0, 2, 6, 12, 20…$

13. $0, 1, 3, 6, 10…$

14.$ 0, 10, 30, 60, 100…$

15.$ -1, 8, 27, 56, 95…$

16.$ -5, 4, 23, 52, 91…$

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

1. $2n^{2}$

2. $2n^{2}+1$

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

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

5. $2n^{2}+2n$

6. $n^{2}+2n$

7. $3n^{2}+2n$

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

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

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

11. $n^{2}-2n$

12. $n^{2}-n$

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

14.$5n^{2}-5n$

15. $5n^{2}-6n$

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

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