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Number Sequences

Name: _____

Date: _____

For each sequence, find the next term. Write the rule you used.

1. **3, 12, 27, 48, 75, ____**

Rule: _____

2. **2, 5, 10, 17, 26, ____**

Rule: _____

3. **4, 10, 20, 34, 52, ____**

Rule: _____

4. **8, 17, 32, 53, 80, ____**

Rule: _____

5. **5, 14, 29, 50, 77, ____**

Rule: _____

6. **5, 8, 13, 20, 29, ____**

Rule: _____

7. **3, 6, 11, 18, 27, ____**

Rule: _____

8. **3, 12, 27, 48, 75, ____**

Rule: _____

9. **6, 12, 22, 36, 54, ____**

Rule: _____

10. **6, 12, 22, 36, 54, ____**

Rule: _____

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Number Sequences

1. next = 108 (rule: n^2 pattern (add $3(2n+1)$))
2. next = 37 (rule: n^2 pattern (add $1(2n+1)$))
3. next = 74 (rule: n^2 pattern (add $2(2n+1)$))
4. next = 113 (rule: n^2 pattern (add $3(2n+1)$))
5. next = 110 (rule: n^2 pattern (add $3(2n+1)$))
6. next = 40 (rule: n^2 pattern (add $1(2n+1)$))
7. next = 38 (rule: n^2 pattern (add $1(2n+1)$))
8. next = 108 (rule: n^2 pattern (add $3(2n+1)$))
9. next = 76 (rule: n^2 pattern (add $2(2n+1)$))
10. next = 76 (rule: n^2 pattern (add $2(2n+1)$))