

EXTRA SPICY NTH TERM PRACTICE PROBLEMS

Find the value of the 50th term of the following sequences:

1. **2, 9, 20, 35, 54, 77**
2. **0, 3, 8, 15, 24, 35**
3. **4, 10, 18, 28, 40, 54**
4. **6, 21, 40, 63, 90, 121**
5. **-3, 8, 25, 48, 77, 112**
6. **6, 25, 56, 99, 154, 221**
7. **5, $40/3$, $77/3$, 42, $187/3$**
8. **-10, -6, 0, 8, 18**
9. **3, 1, 0, 0, 1, 3, 6**

Find the next term:

1. **4, -8, 16, -32, 64**
2. **18, -3, -6, $1/2$, -12, $-1/24$**

Find the sum of the:

1. **first 90 even integers.**
2. **first 85 odd integers.**
3. **150 consecutive integers.**
4. **$55 + 56 + 57 + \dots + 240 = ?$**
5. **$66 + 68 + 70 + \dots + 248 = ?$**
6. **$71 + 73 + 75 + \dots + 153 = ?$**
7. **$1 + 2 + 3 + \dots + 917 = ?$**
8. **$555 + 556 + 557 + \dots + 900 = ?$**
9. **$1 + 3 + 5 + \dots + 559 = ?$**
10. **$333 + 335 + 337 + \dots + 763 = ?$**
11. **$2 + 4 + 6 + \dots + 1672 = ?$**
12. **$444 + 446 + 448 + \dots + 888 = ?$**