

Name \_\_\_\_\_ Period \_\_\_\_\_

**Section 11-3 Homework**

1. A 50-row theater has 20 seats in the front row. The second row has 21 seats. If each row has one more than the row in front of it, how many seats are there in the theater?

[A] 2225                      [B] 2250                      [C] 4450                      [D] 4500

[1] \_\_\_\_\_

2. A 60-row theater has 30 seats in the front row. The second row has 31 seats. If each row has one more than the row in front of it, how many seats are there in the theater?

[A] 3570                      [B] 7140                      [C] 3600                      [D] 7200

[2] \_\_\_\_\_

Evaluate the sum.

3.  $\sum_{k=1}^{19} (2k + 3)$                       [A] 456                      [B] 380                      [C] 58                      [D] 437

[3] \_\_\_\_\_

4.  $\sum_{k=1}^{33} (-5k - 6)$                       [A] -2805                      [B] -3085.5                      [C] -3003                      [D] -133

[4] \_\_\_\_\_

Evaluate the sum.

5.  $\sum_{k=1}^{18} (4k + 8)$

[5] \_\_\_\_\_

6. Find the sum of the first 12 terms of the sequence 7, 13, 19, 25, ...

[6] \_\_\_\_\_