

11.2  
Part 2

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Practice Worksheet

### Arithmetic Series

Find  $S_n$  for each arithmetic series described.

1.  $a_1 = 16, a_n = 98, n = 13$

2.  $a_1 = 13, d = -6, n = 21$

3.  $d = -\frac{2}{3}, n = 16, a_n = 44$

4.  $a_1 = -121, d = 3, a_n = 5$

Find the sum of each arithmetic series.

5.  $5, 7, 9, \dots, 27$

6.  $-4, 1, 6, \dots, 91$

7.  $13, 20, 27, \dots, 272$

8.  $89, 86, 83, \dots, 20$

9.  $\sum_{k=3}^8 (5k - 10)$

10.  $\sum_{p=4}^{10} (2p + 1)$

11.  $\sum_{n=1}^6 (3n + 5)$

12.  $\sum_{j=1}^5 (9 - 4j)$