

## Summations

### Unit 6: Representations of Linear Relations

Evaluate the related series of each sequence.

1. 26, 34, 42, 50, 58	2. 16, 23, 30, 37, 44, 51
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Evaluate each arithmetic series described.

3. $43 + 52 + 61 + 70 \dots, n = 9$	4. $7 + 15 + 23 + 31 \dots, n = 15$
5. $6 + 10 + 14 + 18 \dots, n = 13$	6. $17 + 26 + 35 + 44 \dots, n = 9$
7. $\sum_{n=1}^{12} (4n - 9)$	8. $\sum_{i=1}^7 (3i + 5)$
9. $\sum_{n=1}^{25} (9n - 10)$	10. $\sum_{m=1}^{25} (9m - 16)$

Evaluate each arithmetic series described.

11.  $a_1 = 37, a_n = 97, n = 7$

12.  $a_1 = 14, a_n = 38, n = 7$

13.  $a_1 = 46, a_n = 136, n = 11$

14.  $a_1 = 10, a_n = 25, n = 6$

15.  $a_1 = -9, a_n = -87, n = 14$

16.  $a_1 = 8, a_n = 200, n = 25$

17.  $a_1 = 14, d = 3, n = 11$

18.  $a_1 = 42, d = 9, n = 10$

19.  $a_1 = 7, d = 5, n = 7$

20.  $a_1 = -11, d = -5, n = 12$