

**Summations – Day 3**  
Unit 6: Representations of Linear Relations

Evaluate the related series of each sequence.

1. 30, 39, 48, 57, 66, 75, 84	2. 22, 29, 36, 43, 50, 57, 64
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Evaluate each arithmetic series described.

3. $46 + 56 + 66 + 76 \dots, n = 9$	4. $(-10) + (-14) + (-18) + (-22) \dots, n = 7$
5. $20 + 28 + 36 + 44 \dots, n = 15$	6. $6 + 10 + 14 + 18 \dots, n = 10$
7. $\sum_{i=1}^{10} (10 - 9i)$	8. $\sum_{k=1}^9 (3k - 6)$
9. $\sum_{i=1}^7 (16 - 10i)$	10. $\sum_{i=1}^5 (10i - 14)$

Evaluate each arithmetic series described.

11.  $a_1 = 7, a_n = 91, n = 15$

12.  $a_1 = 22, a_n = 58, n = 10$

13.  $a_1 = 2, a_n = 22, n = 6$

14.  $a_1 = 3, a_n = 63, n = 11$

15.  $a_1 = 33, a_n = 93, n = 7$

16.  $a_1 = -25, a_n = -89, n = 9$

17.  $a_1 = 20, d = 9, n = 10$

18.  $a_1 = 17, d = 2, n = 12$

19.  $a_1 = 29, d = 7, n = 15$

20.  $a_1 = 2, d = 3, n = 13$