

Summations – Day 2

Unit 6: Representations of Linear Relations

Evaluate the related series of each sequence.

1. 9, 13, 17, 21, 25, 29	2. -44, -53, -62, -71, -80, -89, -98
--------------------------	--------------------------------------

Evaluate each arithmetic series described.

3. $(-49) + (-59) + (-69) + (-79) \dots, n = 19$	4. $31 + 37 + 43 + 49 \dots, n = 14$
5. $6 + 8 + 10 + 12 \dots, n = 9$	6. $29 + 36 + 43 + 50 \dots, n = 9$
7. $\sum_{m=1}^{40} (7m - 12)$	8. $\sum_{i=1}^{12} (2i - 8)$
9. $\sum_{n=1}^{25} (4n + 2)$	10. $\sum_{n=1}^5 (6n - 4)$

Evaluate each arithmetic series described.

11. $a_1 = -2, a_n = 12, n = 8$

12. $a_1 = -7, a_n = -133, n = 15$

13. $a_1 = 1, a_n = 13, n = 7$

14. $a_1 = -13, a_n = -33, n = 11$

15. $a_1 = 11, a_n = 354, n = 50$

16. $a_1 = 22, a_n = 70, n = 13$

17. $a_1 = 2, d = 10, n = 50$

18. $a_1 = 7, d = 6, n = 11$

19. $a_1 = 19, d = 7, n = 9$

20. $a_1 = 32, d = 10, n = 40$