

Arithmetic Series

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Evaluate each arithmetic series described.

1) $a_1 = -7, a_n = 8, n = 6$

2) $a_1 = 36, a_n = 309, n = 40$

3) $a_1 = 14, a_n = 102, n = 45$

4) $a_1 = 8, a_n = 56, n = 25$

5) $a_1 = -36, a_n = -176, n = 15$

6) $a_1 = 0, a_n = 174, n = 30$

7) $a_1 = -15, a_n = -123, n = 13$

8) $a_1 = 22, a_n = 92, n = 15$

9) $a_1 = 6, a_n = 48, n = 15$

10) $a_1 = 24, a_n = 108, n = 13$

11) $\sum_{m=4}^{13} 2m$

12) $\sum_{m=4}^{14} 2m$

13) $\sum_{m=2}^{46} (10m - 8)$

14) $\sum_{k=4}^{28} (7k - 17)$

15) $\sum_{m=4}^{53} (10m - 1)$

16) $\sum_{i=2}^7 (10i - 16)$

17) $\sum_{m=3}^{22} (2m + 1)$

18) $\sum_{n=3}^{14} (2n - 5)$

19) $\sum_{k=4}^{18} (4k + 2)$

20) $\sum_{k=3}^{47} (5 - 2k)$

Answers to Arithmetic Series (ID: 1)

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|-----------|----------|-----------|-----------|
| 1) 3 | 2) 6900 | 3) 2610 | 4) 800 |
| 5) -1590 | 6) 2610 | 7) -897 | 8) 855 |
| 9) 405 | 10) 858 | 11) 170 | 12) 198 |
| 13) 10440 | 14) 2375 | 15) 14200 | 16) 174 |
| 17) 520 | 18) 144 | 19) 690 | 20) -2025 |