

Arithmetic Series

Evaluate the related series of each sequence.

1) 13, 15, 17, 19, 21, 23

$a_1 = 13$

$d = 2$

$$S_6: S_6 = \frac{6}{2} [2(13) + 2(6-1)]$$

$S_6 = 108$ ✓

2) 6, 11, 16, 21, 26, 31, 36

$a_1 = 6$

$n = 7$

$d = 5$

$$S_7: S_7 = \frac{7}{2} [2(6) + 5(7-1)]$$

$S_7 = 147$

3) 22, 28, 34, 40, 46

$a_1 = 22$

$d = 6$

$n = 5$

$$S_5: S_5 = \frac{5}{2} [2(22) + 6(5-1)]$$

$S_5 = 170$ ✓

4) 39, 49, 59, 69

$n = 4$

$a_1 = 39$

$d = 10$

$$S_4: S_4 = \frac{4}{2} [2(39) + 10(4-1)]$$

Evaluate each arithmetic series described.

5) $\sum_{m=1}^{10} (5m - 2)$

6) $\sum_{m=1}^{10} (3m - 13)$

7) $\sum_{m=1}^{10} 4m$

8) $\sum_{m=1}^{10} (7m - 2)$

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Julia Schneider



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