

# Sum of a Finite Arithmetic Series

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Evaluate each arithmetic series.

1)  $10 + 210 + 410 + \dots$  up to 5 terms

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2)  $\sum_{c=1}^{15} \left( \frac{16(c-2)}{5} + 8 \right)$

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3)  $\sum_{m=1}^{20} (30(m-11))$

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4)  $-37 - 42 - 47 - \dots$  up to 19 terms

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5)  $a_1 = -2, a_n = 1448, n = 30$

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6)  $a_1 = \frac{9}{2}, a_n = \frac{25}{2}, n = 17$

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7)  $a_1 = 26.7, a_n = 42.7, n = 21$

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8)  $3\sqrt{2} - 3\sqrt{2} - 9\sqrt{2} - \dots$  up to 36 terms

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