

# Sum of a Finite Arithmetic Series

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Evaluate each arithmetic series.

1)  $a_1 = \frac{7}{5}, a_n = -\frac{56}{5}, n = 8$

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2)  $87.7 + 70.6 + 53.5 + \dots$  up to 10 terms

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3)  $a_1 = \sqrt{3}, a_n = 528\sqrt{3}, n = 32$

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4)  $\sum_{w=1}^8 \left( \frac{8}{3}(7-w) + 1 \right)$

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5)  $-120 - 100 - 80 - \dots$  up to 14 terms

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6)  $a_1 = -47, a_n = -83, n = 13$

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7)  $\sum_{y=1}^{25} (17(y-1) + 19)$

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8)  $28 + 36 + 44 + \dots$  up to 11 terms

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