

# Arithmetic Series

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- 1) The sum of the first  $n$  terms of the arithmetic series  $28 + 39 + 50 + \dots$  is 1768. Find the value of  $n$ .

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- 2) The sum of all terms of a series is 864. Determine the common difference in this arithmetic series whose first and last terms are 62.5 and 153.5 respectively.

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- 3) The first term of an arithmetic series is 17, and the sum of all 34 terms is equal to 1980.5. Find the last term.

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- 4) The first term and the last term of an arithmetic series are  $\sqrt{2}$  and  $400\sqrt{2}$  respectively. The sum of the terms of the series is  $4010\sqrt{2}$ . Find the number of terms in the series.

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- 5) The sum of the first twenty-two terms in an arithmetic series is  $-3124$ . If the common difference is  $-4$ , what is the first term?

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