

- 1) The sum of the first n terms of the arithmetic series $28 + 39 + 50 + \dots$ is 1768. Find the value of n .
- 2) The sum of all terms of a series is 864. Determine the common difference in the arithmetic series whose first and last terms are 62.5 and 153.5 respectively.

- 3) The first term of an arithmetic series is 1 and the sum of all 34 terms is equal to 1000. Find the common difference.

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

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

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Arithmetic Series

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

number of terms = 16

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

- 3) The first term of an arithmetic series is 1 and the sum of all 34 terms is equal to 1000. Find the common difference.

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

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number of terms = 20

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

first term = -100