

## Arithmetic Series

- 1) The first term of an arithmetic progression is  $\frac{5}{3}$  and the sum of all 32 terms is equal to  $\frac{904}{3}$ . Find the last term.
- 2) The sum of the first twelve terms in an arithmetic series is 81. If the first term of the series is  $-7$ , find the common difference.
- 3) The first term of an arithmetic series is  $\frac{1}{4}$  and the common difference are  $\frac{1}{4}$  and  $\frac{17}{4}$  respectively. If the sum of the first  $n$  terms is  $100$ , find the number of terms.
- 4) The sum of the first  $n$  terms of an arithmetic series is  $2369$ . If the common difference is  $1$ , find the first term.
- 5) The first term of an arithmetic series is  $-33.5$ . The sum of all the ten terms in the series is  $-740$ . Find the last term.

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**Arithmetic Series**

- 1) The first term of an arithmetic progression is  $\frac{5}{3}$  and the sum of all 32 terms is equal to  $\frac{904}{3}$ . Find the last term.

$$\text{last term} = \frac{103}{6}$$

- 2) The sum of the first twelve terms in an arithmetic series is 81. If the first term of the series is  $-7$ , find the common difference.

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- 3) The first term of an arithmetic series is  $\frac{1}{4}$  and the common difference are  $\frac{1}{4}$  and  $\frac{17}{4}$  respectively. If the sum of the first  $n$  terms is  $100$ , find the number of terms.

- 4) The sum of the first  $n$  terms of an arithmetic progression is  $2369$ . If the common difference is  $1$ , find the first term.

$$\text{first term} = -18$$

- 5) The first term of an arithmetic series is  $-33.5$ . The sum of all the ten terms in the series is  $-740$ . Find the last term.

$$\text{last term} = -114.5$$