

1) The first term and the common ratio of a geometric progression are 5 and -8 respectively. The sum of the terms of the series is -9320675 . Find the number of terms in the series.

2) The sum of the first 6 terms of a geometric series is $-\frac{91}{2}$. The common ratio of the series is -3 . Find the first term.

3) The sum of the first 5 terms of a geometric progression is $2 + 8 + 32 + \dots$ is 174762. Find the common ratio.

4) Find the first term of a geometric progression whose common ratio is $\frac{4}{3}$ and the sum of the first 5 terms is 8.

5) How many terms are there in the geometric progression whose first term and the common ratio are $9\sqrt{7}$ and 9 respectively. If the sum of the terms is $5380839\sqrt{7}$?

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Geometric Series

- 1) The first term and the common ratio of a geometric progression are 5 and -8 respectively. The sum of the terms of the series is -9320675 . Find the number of terms in the series.

number of terms = 8

- 2) The sum of the first 6 terms of a geometric series is $-\frac{91}{2}$. The common ratio of the series is -3 . Find the first term

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- 3) The sum of the first 5 terms of a geometric progression is 174762. Find the first term and the common ratio. (The first term is 2 and the common ratio is 3) $2 + 8 + 32 + \dots$

- 4) Find the first term and the common ratio of a geometric progression whose first 5 terms of the series is $\frac{46}{81}$. (The first term is 2 and the common ratio is 3) $2 + 8 + 32 + \dots$

first term = $\frac{1}{2}$

- 5) How many terms are there in the geometric progression whose first term and the common ratio are $9\sqrt{7}$ and 9 respectively. If the sum of the terms is $5380839\sqrt{7}$?

number of terms = 7