

## Geometric Series

- 1) The first term of a geometric progression is  $\frac{5}{4}$ , common ratio is 4 and the sum of the terms of the series is  $\frac{6825}{4}$ . Find the number of terms in the series.
  
- 2) Find the first term of a geometric series, if the sum of the first seven terms of the series is  $-58593$  and the common ratio of the series is 5.

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- 3) The first term and common ratio of a geometric progression are 10 and 6 respectively. The sum of the first  $n$  terms is 3359230. Find the number of terms.
  
- 4) The sum of the first  $n$  terms of a geometric progression is  $14\sqrt{2}$  and the common ratio is  $\frac{1}{2}$ .
  
- 5) The sum of the terms of a series is 45045. Determine the number of terms in the geometric progression whose first term and common ratio are 11 and 2 respectively.