

## Infinite Geometric Series

1) What is the first term of an infinite geometric series, if the sum of the series and the common ratio are 322 and  $\frac{6}{7}$  respectively?

2) The sum of an infinite geometric series is  $\frac{3\sqrt{5}}{10}$  and the first term is  $\frac{\sqrt{5}}{4}$ . Find the common ratio.

3) Find the common ratio and first term of the series are 15 and 150 respectively.

4) The common ratio and first term of an infinite geometric series are 2 and 1 respectively. The sum is 43. Determine the first term.

5) Determine the common ratio of an infinite geometric series, if the sum of the series and the first term are 90 and 54 respectively.

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