Name : _____

## **Infinite Geometric Series**

1) The common ratio of an infinite geometric series is $\frac{2}{5}$ and the sum is $\frac{140}{3}$. Determine the first term.

2) Determine the common ratio of an infinite geometric series, if the sum of the series and the first term are 53.75 and 43 respectively.

3) Find the first ter~~_____~~nd common ratio of the series are $\frac{16}{3}$

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4) What is the com~~_____~~e sum of the series and the first ter~~_____~~

5) The sum of an infinite geometric series is $8 + 4\sqrt{3}$ and the common ratio is $\sqrt{3} - 1$. Find the first term.