

## Sum of the Series

The  $n^{\text{th}}$  partial sum is given. Find the infinite sum ( $S$ ) of the series. Also determine whether the series converges or diverges.

1)  $S_n = \frac{10n^2 + 1.6}{n^4}$

2)  $S_n = \frac{(3n + 1)^2}{7 + 12n}$

3)  $S_n = \frac{1 + 9n^5}{n + 14}$

5)  $S_n = \frac{6n^2 - 2}{2n(3 - 4n)}$

7)  $S_n = \frac{n^2 + 7n - 1}{6 + n}$

8)  $S_n = \frac{14}{5n} + \frac{4n^2}{3}$

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