

Sum of the Series

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

1) $S_n = 6 - \frac{3}{n^2}$

2) $S_n = \frac{1.1}{n} + 4.8n$

3) $S_n = \frac{15n^3}{(n+1)(n)}$

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

7) $S_n = -\frac{14n}{n+19}$

8) $S_n = \frac{5n^2 + 11}{(n+1)^2}$