Name : _____

Sum of the Series

The nth partial sum is given. Find the infinite sum (S) of the series. Also determine whether the series converges or diverges.

1) $S_n = \dfrac{8}{n} + \dfrac{3}{n^2} - \dfrac{7n^3}{9}$

2) $S_n = \dfrac{1}{n+1} - 1$

3) $S_n = \dfrac{1 - 2n^2}{6n + 5n^2}$

4)

5) $S_n = \dfrac{n+4}{13n}$

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7) $S_n = 15n^4 + \dfrac{3}{n^3} + \dfrac{1}{4}$

8) $S_n = \dfrac{16n}{-4n + 8}$