

Partial Sum of the Series

Find the indicated partial sum of each series.

1) $\sum_{n=1}^{\infty} (n^3 - 200) ; S_9$

2) $\sum_{n=1}^{\infty} 7n^3 ; S_4$

3) $\sum_{n=1}^{\infty} (9 + 4^n)$

5) $\sum_{n=1}^{\infty} (6 - 10r^n)$

$n^2) ; S_8$

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7) $\sum_{n=1}^{\infty} (0.5n^2 + n^3) ; S_5$

8) $\sum_{n=1}^{\infty} (14n + 2n^3) ; S_2$