

Partial Sum of the Series

Find the indicated partial sum of each series.

1) $\sum_{n=1}^{\infty} (n + 5n^3) ; S_6$

2) $\sum_{n=1}^{\infty} (1 - n^2) ; S_{10}$

3) $\sum_{n=1}^{\infty} (8n^2 - 9) ; S_8$

5) $\sum_{n=1}^{\infty} \left(\frac{1-n}{2n}\right) (n^3) ; S_4$

7) $\sum_{n=1}^{\infty} (n^3 - 100) ; S_9$

8) $\sum_{n=1}^{\infty} (10n - n^2) ; S_7$

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