

Partial Sum of the Series

Find the indicated partial sum of each series.

1) $\sum_{n=1}^{\infty} \left(\frac{n^2 - 1}{2} \right) ; S_8$

2) $\sum_{n=1}^{\infty} 1.8n^2 ; S_3$

3) $\sum_{n=1}^{\infty} (4n^2 - 1) ; S_9$

5) $\sum_{n=1}^{\infty} 8n ; S_6$; S_5

7) $\sum_{n=1}^{\infty} (n^3 + 25n) ; S_4$

8) $\sum_{n=1}^{\infty} (n - n^3) ; S_{10}$

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