

Finding n^{th} term

The n^{th} partial sum of the series is given. Find the indicated term of the series.

1) $S_n = (7n^2 + 3)$; 31st term

2) $S_n = \left(\frac{9n}{n-7}\right)$; 17th term

3) $S_n = \left(\frac{n}{3+n}\right)$;

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5) $S_n = \frac{1}{n}$; 49th

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; 30th term

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7) $S_n = n^2(100 - n^3)$; 5th term

8) $S_n = (n + 6)(n + 2)$; 25th term