

Finding n^{th} term

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

1) $S_n = \left(\frac{10}{n-9}\right)$; 20th term

2) $S_n = (1-n)(8-n)$; 46th term

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

; 37th term

5) $S_n = \left(\frac{7}{n^2+5}\right)$

; 24th term

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7) $S_n = (n^2 - 9n^3)$; 42nd term

8) $S_n = \left(\frac{n+4}{n-11}\right)$; 13th term