Name : _____

Finding n^{th} term

Sheet 1

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

1) $S_n = \left(\frac{n+5}{n-3}\right)$; 10^{th} term

2) $S_n = \left(\frac{n^2-1}{2n+1}\right)$; 12^{th} term

3) $S_n = n^3$; 33^{rd}

^{2}; 25^{th} term

5) $S_n = (400 - n$

; 11^{th} term

7) $S_n = \left(\frac{n-1}{4n}\right)$; 36^{th} term

8) $S_n = (n^3 + 1)$; 15^{th} term

Name : _____

Answer key

Finding n^{th} term

Sheet 1

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1) $S_n = \left(\frac{n+5}{n-3}\right)$; 10^{th} term

2) $S_n = \left(\frac{n^2-1}{2n+1}\right)$; 12^{th} term

$-\frac{4}{21}$

$\frac{289}{575}$

3) $S_n = n^3$; 33^{rd}

^{2}; 25^{th} term

316

02560

5) $S_n = (400 - n$

; 11^{th} term

30

05

7) $S_n = \left(\frac{n-1}{4n}\right)$; 36^{th} term

8) $S_n = (n^3 + 1)$; 15^{th} term

$\frac{1}{5040}$

631