

## General Term

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

1)  $S_n = n^2(4 - n^2)$

2)  $S_n = \frac{2n^2}{7 - n}$

3)  $S_n = 6 + \frac{n^2}{2}$

5)  $S_n = \frac{n + 8}{2n}$

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The  $n^{\text{th}}$  partial sum of the series is given. Find the following terms.

i)  $a_n$

ii)  $a_4$

iii)  $a_{15}$

7). Find the