Name : _____

General Term

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

1) $S_n = \frac{3}{n} + 4n$

2) $S_n = (n + 13)n$

3) $S_n = \frac{n^2 - 1}{2n + 2}$

5) $S_n = \frac{6n^2 +}{n - 1}$

5)

The n^{th} partial s ind the following terms.

i) a_n

ii) a_{19}

iii) a_{10}

Name : _____

Answer key

General Term

Sheet 1

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

1) $S_n = \frac{3}{n} + 4n$

$a_n = \frac{4n^2 - 4n - 3}{n(n-1)}$

2) $S_n = (n + 13)n$

$a_n = 2(n + 6)$

3) $S_n = \frac{n^2 - 1}{2n + 2}$

$a_n = \frac{1}{2}$

5) $S_n = \frac{6n^2 + }{n - 1}$

$a_n = \frac{6n^2 - }{(n - 1}$

$\frac{-1}{)(n + 4)}$

5)

$3n + 1$

The n^{th} partial s ind the following terms.

i) a_n

$a_n = \frac{-8}{(n - 3)(n - 4)}$

ii) a_{19}

$a_{19} = -\frac{1}{30}$

iii) a_{10}

$a_{10} = -\frac{4}{21}$