Name : _____

# Finding $n^{th}$ Term

Sheet 1

1) Find the $7^{th}$ term of the sequence 1, 13, 33, 61, ... using recursive formula.

_____

2) The sequence is –1, 2, 7, 14, 23, ... Find the $9^{th}$ term using recursive formula.

_____

3) The sequence i m using recursive formula.

_____

4) Find the $6^{th}$ terr ve formula.

_____

5) The sequence is –123, –246, –369, –492, ... Find the $10^{th}$ term using recursive formula.

_____

Name : _____

**Answer key**

Sheet 1

# Finding $n^{th}$ Term

1) Find the $7^{th}$ term of the sequence 1, 13, 33, 61, ... using recursive formula.

$a_n = a_{n-1} + 4(2n - 1)$ ; $a_7 = 193$

2) The sequence is –1, 2, 7, 14, 23, ... Find the $9^{th}$ term using recursive formula.

$a_n = a_{n-1}$ ·

3) The sequence i m using recursive formula.

$a_n = a_{n-1}$

4) Find the $6^{th}$ terr ve formula.

$a_n = a_{n-1} \cdot n$ ; $a_6 = 360$

5) The sequence is –123, –246, –369, –492, ... Find the $10^{th}$ term using recursive formula.

$a_n = a_{n-1} - 123$ ; $a_{10} = -1230$