Review:

Objective: Find the terms of a sequence given an explicit or recursive formula

Do Now Write the first four terms in the sequences below:

1) $t_n = 4n - 3$	2) $t_1 = -2$
	$t_n = 5t_{n-1} + 4$

3)
$$a_1 = 1$$
, $a_2 = 1$
 $a_n = a_{n-2} + a_{n-1}$

For each sequence,

b) State the difference (d) between each term.

1) 8, 5, 2, -1, ____, ___, ___, ... d = ____
2) 4, 8, 12, 16, ____, ___, ___, ... d = ____
3) 9, 16, 23, 30, ____, ___, ... d = ____

Write the first six terms of the sequence:

wille the motors terms of the sequence.	
1) b _n = 2.5 n	2) $a_1 = -5$, $a_n = 3a_{n-1}$
3) $t_n = n^2 + 12$	4) $a_1 = 20$, $a_n = 3a_{n-1} + 10$
5) $a_1 = 1$, $a_n = a_{n-1} + 100$	6) $f_n = \frac{1}{2}n - \frac{1}{2}$

For each sequence below, find the next three terms.

1) 1, 11, 121, 1331,	2) 81, 78, 75, 72,	3) 2, -6, 18, -54
4) ¼, -1, 4, -16,	5) 1, 4, 9, 16, 25,	6) 1, 1, 2, 3, 5, 8, 13,

Find the indicated term below:

1) Find the 25 th term:	2) The 3 rd term:	3) Find the 100 th term:	
$t_n = n - 4$	$\mathbf{t_n} = \mathbf{t_{n-1}} + \mathbf{t_{n-2}}, t_1 = 7, t_1 = 10$	$t_n = n^2 - 10000$	
4) Find the 19 th term:	5) Find the 7 th term:	6) Find the 13 th term:	
$t_n = t_{n-1} + 25$, $t_{18} = 15$	$t_n = -t_{n-1}$, $t_8 = 5$	$t_n = (n-1)^2$	
	-11 -11 -11 -0 -		

1) It stats snowing hard at 10:00pm. The snow accumulates at 4 inches every hour. The superintendent will give you a snow day if there is 2 feet of snow by 5:00am. Give the first 8 terms of the sequence below. Assuming the snowfall does not stop or slow down, will you get a snow day???