Patterns and Next/Now Statements

Name: _____ Hour: _____

What is the **perimeter** of each term?

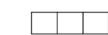1.   Term 1   Term 2   Term 3   Now-Next Equation:

_____

Linear Function:

Term Number	1	2	3	4	5
Term	3	4	5		

_____

2.   Term 1   Term 2   Term 3   Now-Next Equation:

_____

Term Number	1	2	3	4	5
Term	4	6	8		

Linear Function:

_____

Match the appropriate expression with the pattern:

3. Next = 2 * Now + 1   a. 2 , 5 , 8 , 11 …

4. Next = Now + 3   b. -1 , -5 , -13 , -29 …

5. Next = Now – 2   c. -3 , -5 , -9 , -17 …

6. Next = 2 * Now – 3   d. 5 , 3 , 1 , -1 …

Find the next 3 terms using the following Next/ Now Statements:

7. Next = Now – 6   3, ____, ____, ____

8. Next = 3*Now + 2   -4, ____, ____, ____

9. Next = $-\frac{1}{2}$ * Now + 5   -20, ____, ____, ____

Writing an Equation from a Table

What equation represents the output of the nth term?

1. _____

_____

Term Number	-2	-1	0	1	2	3	n
Term	-10	-7	-4	-1	2	5	

Now-Next equation:

2. _____

_____

Term Number	-2	-1	0	1	2	3	n
Term	-6	-2	2	6	10	14	

Now-Next equation:

3. _____

_____

Term Number	-2	-1	0	1	2	3	n
Term	3	1	-1	-3	-5	-7	

Now-Next equation:

4. _____

_____

Term Number	-2	-1	0	1	2	3	n
Term	-10	-5	0	5	10	15	

Now-Next equation:

5. _____

_____

Term Number	-2	-1	0	1	2	3	n
Term	2	-1	-4	-7	-10	-13	

Now-Next equation:

6. _____

_____

Term Number		1	2	3	4	5	n
Term		8	10	12	14	16	

Now-Next equation:

7. _____

_____

Term Number		1	2	3	4	5	n
Term		-1	-7	-13	-19	-25	