

Algebra IA

1.3 Worksheet

Finding Patterns

NAME: _____

DATE: _____ HOUR: _____

Use each table to write an algebraic expression for the nth term.

1	2	3	4	n
2	4	6	8	$2n$

1	2	3	4	n
3	6	9	12	

1	2	3	4	n
7	14	21	28	

1	2	3	4	n
1	2	3	4	

1	2	3	4	n
5	10	15	20	

1	2	3	4	n
-1	-2	-3	-4	

1	2	3	4	n
-2	-4	-6	-8	

1	2	3	4	n
-10	-20	-30	-40	

1	2	3	4	n
-4	-8	-12	-16	

1	2	3	4	n
200	400	600	800	

hint: find the zero term and the differences

0
4

1	2	3	4	n
6	8	10	12	$4+2n$

+2 +2 +2 +2

1	2	3	4	n
5	4	3	2	

1	2	3	4	n
12	14	16	18	

1	2	3	4	n
14	12	10	8	

1	2	3	4	n
7	10	13	16	

1	2	3	4	n
32	34	36	38	

1	2	3	4	n
22	24	26	28	

1	2	3	4	n
22	18	14	10	

1	2	3	4	n
10	17	24	31	

1	2	3	4	n
-12	-14	-16	-18	