Name _____ Date _____ Pd ____

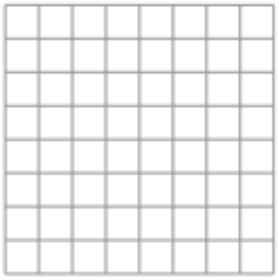
6.7 Extra Practice Worksheet

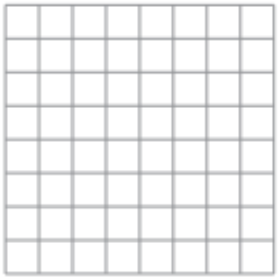
1 – 6: Write the first six terms of the sequence. Then graph the sequence.

1. $a_1 = -2$; $a_n = -2a_{n-1}$

2. $a_1 = -4$; $a_n = a_{n-1} + 3$

3. $a_1 = 4$; $a_n = 1.5a_{n-1}$

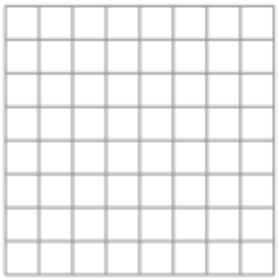




4. $a_1 = 14$; $a_{n-1} - 4$

5. $a_1 = -\frac{1}{2}$; $a_n = -2\ a_{n-1}$

6. $a_1 = -3$; $a_n = a_{n-1} + 2$



7 – 8: Write a recursive rule for the sequence.

7.

n	1	2	3	4
a_n	324	108	36	12

8.

n	1	2	3	4
a_n	9	14	19	24

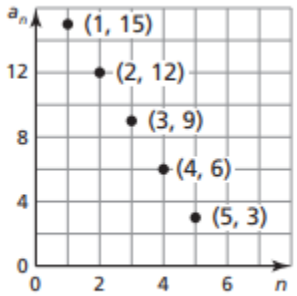
9 – 13: Write a recursive rule for the sequence.

9. 3125, 625, 125, 25, …

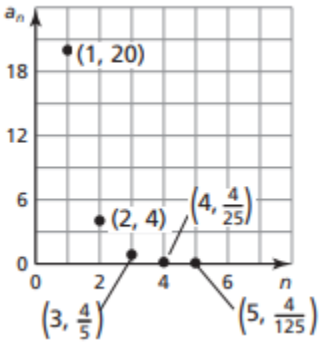
10. 8, - 24, 72, - 216, …

11. 7, 13, 19, 25, …

12.



13.



14 – 16: Write an explicit rule for the recursive rule.

14. $a_1 = 4$; $a_n = 3a_{n-1}$

15. $a_1 = 6$; $a_n = a_{n-1} + 11$

16. $a_1 = -1$; $a_n = 5\ a_{n-1}$

17 – 19: Write a recursive rule for the explicit rule.

17. $a_n = 6n + 2$

18. $a_n = (-3)^{n-1}$

19. $a_n = -2n + 1$

20 – 22: Write a recursive rule for the sequence. Then write the next two terms of the sequence.

20. 2, 4, 6, 10, 16, 26, …

21. 1, 3, -2, 5, -7, 12, …

22. 1, 2, 2, 4, 8, 32, …