Determine whether the sequence is arithmetic, geometric, or neither. Explain.

1. 2, 4, 6, 8,	2. 5, -10, 20, -40,		
3. 4, 9, 16, 25,	464, -32, -16, -8,		

5. The first term of an arithmetic sequence is 24 and the common difference is -9. Write the first four terms of the sequence.

Write the recursive rule for the sequence.

Position, n	1	2	3
Term, a_n	25	10	-5

7.

Position, n	1	2	3	4
Term, a_n	-10	-6	-2	2

- 8. The first two terms of a sequence are $a_1 = 4$ and $a_2 = -2$.
- a. Find a_3 if the sequence is arithmetic.
- b. Find a_3 if the sequence is geometric.

Write the first five terms of the recursive sequence.

9.
$$a_1 = 18$$
; $a_n = \left(\frac{2}{3}\right) \cdot a_{n-1}$

10.
$$a_1 = 18$$
; $a_n = a_{n-1} + 5$

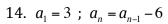
Write the recursive rule for the explicit rule.

11. $a_n = 5n + 10$

12.	a_n	= 4	3	$\binom{n-1}{n}$
	11	,		,

Write the explicit rule for the recursive rule. Then find the value of the 14th term.

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



- 15. Miranda arranges some rows of dominoes so that after she knocks over the first one, each domino knocks over 2 more dominoes when it falls.
 - a. Write an explicit function for the given sequence.
 - b. How many dominoes are in the 24th row?
- 16. Write a recursive rule and an explicit rule for the sequence.

The first term of a sequence is 81. Each term of the sequence is one-third the preceding term.

Explicit rule: Recursive rule: