Name:	Period:	Score:	
HW 3-5 HONORS: Multiple Representations of Sequence	<u>s</u>	/	

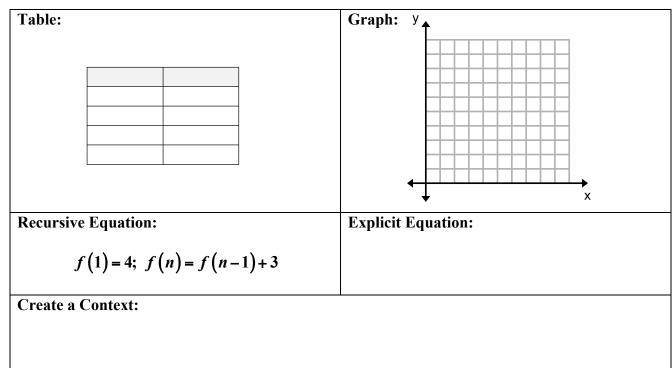
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1. What are the differences between and arithmetic and geometric sequences

Use the following information to complete the other representations of the sequence. 2.

Table:			Graph:	
			^у †	
	Days	Cost		
	1	8		
	2	16		
	3	24		
	4	32		
				x
Recursive	Recursive Equation:		Explicit Equation:	
Create a	Context:			

3.

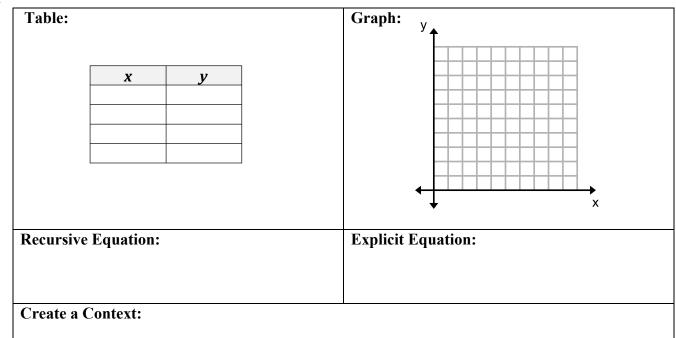


Use the following information to complete the other representations of the sequence.

4.

Table:			Graph: y
	X	y	
	1	32	
	2	16	
	3	8	
	4	4	
			×
Recursive	Equation:		Explicit Equation:
Create a (Context:		

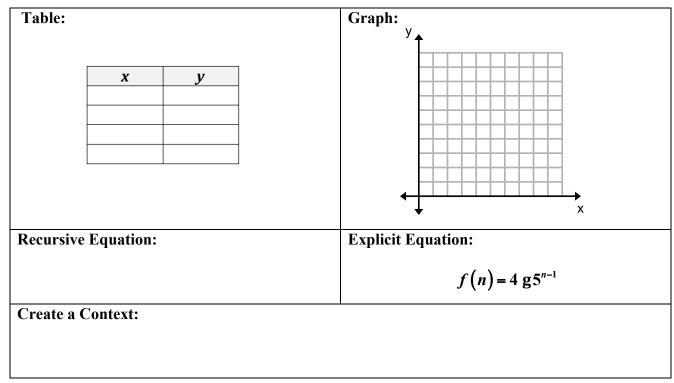
5.



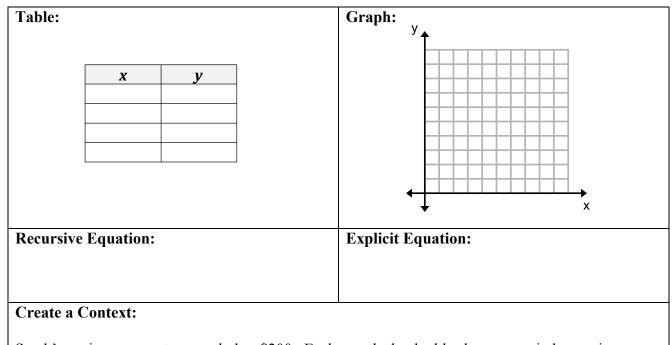
Janet wants to know how many seats are in each row of the theater. Jamal lets her know that each row has 2 seats more than the row in front of it. The first row has 14 seats.

Use the following information to complete the other representations of the sequence.





7.



Sarah's savings account currently has \$200. Each month she doubles her money in her savings account. What is the balance at the end of each month?

Given the recursive equation, find the <u>explicit equation</u>.

8.
$$f(x) = f(x-1)+4; f(1) = -3$$

10. $f(x) = f(x-1)-5; f(-3) = -2$

9.
$$f(x) = f(x-1)g_2; f(1) = 9$$

11. $f(x) = \frac{1}{3}f(x-1); f(-4) = 10$

Given the explicit equation, find the <u>recursive equation</u>.

12.
$$f(x) = 6 \text{ g} 4^{x-5}$$

14. $f(n) = -9 \text{ g} \left(\frac{1}{5}\right)^{x+8}$

13.
$$f(x) = -8x + 11$$

15. $f(x) = 5 - 9(x + 13)$