Name:	Date:	Period:	
	Sequences #1 Assignment		
Find the next three terms in each sequen	ce:		
1. 55, 57, 59, 61,	2. 4, 12, 36, 108,		
3. 16, 8, 4, 2,	420, -26, -32, -38,		
Write a recursive formula for each seque	nce:		
5. 55, 57, 59, 61,	6. 4, 12, 36, 108,		
7. 16, 8, 4, 2,	820, -26, -32, -38,		

Complete each table.

9.

Term	1st	2nd	3rd	4th	5th	6th	7th	8th
Value	66	50	34	18				

10.

Term	1st	2nd	3rd	4th	5th	6th	7th	8th
Value	-3	9	-27	81				

11.

Term	1st	2nd	3rd	4th	5th	6th	7th	8th
Value	160	80	40	20				

12.

Term	1st	2nd	3rd	4th	5th	6th	7th	8th
Value	-9	-2	5	12				

Fill in the table, then write a recursive equation to describe the sequence.

13. You run a business making birdhouses. You spend \$600 to start your business, and it costs you \$5.00 to make each birdhouse.

# of birdhouses	1	2	3	4	5	6	7
Total cost to build							

Recursive formula:

14. You borrow \$500 from a relative, and you agree to pay back the debt at a rate of \$15 per month.

# of months	1	2	3	4	5	6	7
Amount of money owed							

Recursive formula:

15. A population of bacteria begins with 10 organisms then doubles every minute.

# of minutes	1	2	3	4	5	6	7
Amount of bacteria							

Recursive formula:

16. You are saving for a bike and can save \$10 per week. You have \$25 already saved.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Recursive formula: