Algebra 1 – Unit 2B Assessment Practice
 Name _____ Date ____ Period ____

Part	art A: Identifying Sequences [F-IF.A.3]						
	Identify whether the following sequences are arithmetic, geometric, or neither.						
	If arithmetic, find the common difference. If geometric, find the common ratio.						
1.	2, 4, -8, -16,	2.	2,10,18,26,	3.	16,8,4,2,		
Explain the pattern with words. Write or draw the next two apparent elements in the sequence.							
4.	-1, -7, -13,,	5.	$\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$	6.			
			2'4'8'16',				
Dort	P. Granhing Saguanaas		5 4 21				
Fall	D. Oraphing Sequences []	lioit	formula graph the first five	torm	a Label the graph completely		
7	$\int \frac{1}{2(n-1)} dx = 0$	For n	> 1	term	is. Laber the graph completely.		
7.	$\int (n) = 4 + 3(n - 1), 1$	01 1	$z \ge 1$	Г			
	n f(n)					
)					
				_			
				-			
				-			
					+		
Part	C: Using Sequences [F-IF	F.A.2	[]				
			Answer the questions of	comp	pletely.		
8.	f(n) = f(n-1) + 12; f	r(1) =	=-5; 9. 1	<u>-r</u>	10. <i>Given</i> $f(n) = -4n + 11$;		
	Find the Ath Torm	. /	$f(n) = n^2 + \frac{1}{2}n + \frac{1}{2}$	8;	which term has value of -1529		
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				which term has value $0j = 155$:		
			<i>F ina f</i> (0).				

	Answer the questions completely.					
11.	A group of people were to line up in rows inside of a football stadium. The first row started with 5 people. Every row after that had 4 more individuals.					
	Write a recursive rule to describe this situation.					
	Write an explicit rule to describe this situation.					
	Find the number of needle that are lived up in the 25th row.					
	Find the number of people that are fined up in the 25th fow.					
12.	A new breed of rabbits triples in population every month. If the population starts with 2 rabbits, the availating formula would be $f(x) = 2(2)^{n-1}$, where $n =$ number of months.					
	Translate the formula into a recursive version of the formula. (Do not forget to identify the first term.)					
Part I	E: Essential Question					
	Write a Big Idea response for the Essential Question. Include vocabulary terms you have learned.					
13.	Your responses will be evaluated using the Big Ideas Scoring Guide. Give a situation where the explicit formula of a sequence is more useful than the recursive formula.					