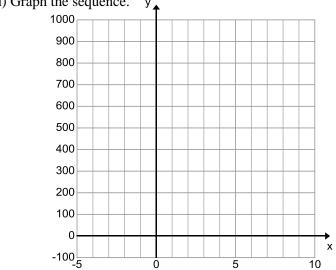
UNIT 5	Date: LESSON 5	
Let's Think! What would come next?	2225011	-
Do Now: Find the pattern and fill in the r	nissing numbers.	
a) 4, 8, 16,,	b) 4, 12, 36,	_,,
	TRIC SEQUENCE	
1. Identify a pattern in the sequence and then find the		uence and then find
missing terms:	missing terms:	
-2000, -1000, -500,,,	6, -18, 54, _	····· •
Rule:	Rule:	
In a	, the amount by which the te	rms change each tim
called the	. The common ratio is represen	ited by
* In a geometric sequence, you are either to find the	or ne next term!	
3. Consider a sequence that follows 1, 3,9		Term
to find the	ne next term! Term Number	
3. Consider a sequence that follows 1, 3,9a) What is the first term?	ne next term! Term Number	
3. Consider a sequence that follows 1, 3,9a) What is the first term?	Term Number "n"	Term
3. Consider a sequence that follows 1, 3,9a) What is the first term?b) What is the common ratio?	ne next term! Term Number	
 3. Consider a sequence that follows 1, 3,9 a) What is the first term? b) What is the common ratio? 4. Consider a sequence that follows 160, 80, 40 	Term Number "n" Term Number	Term
 3. Consider a sequence that follows 1, 3,9 a) What is the first term? b) What is the common ratio? 4. Consider a sequence that follows 160, 80, 40 a) What is the first term? 	Term Number "n" Term Number	Term
 3. Consider a sequence that follows 1, 3,9 a) What is the first term? b) What is the common ratio? 4. Consider a sequence that follows 160, 80, 40 a) What is the first term? 	Term Number "n" Term Number	Term

5.	Consider a sequence that follows 1, 5, 25, 125,	625,
	a) What is the first term?	b) Wha

- at is the common ratio?
- d) Graph the sequence. 1000 900



Term Number "n"	Term

c) Fill in table.

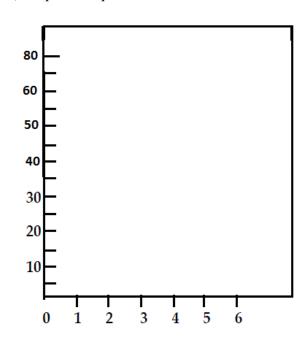
* Geometric Sequences follow an_

pattern!

- 6. Consider a sequence that follows 81, 27, 9, ...
 - a) What is the first term?
 - c) Fill in table.

Term Number "n"	Term

- b) What is the common ratio?
- d) Graph the sequence.



What would the equation of these graphs be? ... Hint: let's use our calculator!

Rows 1, 2, and 3: Find the equation of #5_____

Rows 4, 5, and 6: Find the equation of #6_____

Sequence	Arithmetic, Geometric, or Neither (Write A,G, or N)	Common difference or Common ratio
A. 1, -4, 16, -64,		
B. 108, 66, 141, 99,		
C. -96, -48, -24, -12,		
D. 7, 13, 19, 25,		
E. 3, 9, 81, 6561,		
 Name:		EXIT TICKET
1) Consider a sequence that for		
a) What is the f	irst term?	
	ommon ratio?	
b) What is the c		
b) What is the cc) Find the next	term.	