FST		Name:		
Notes 4.4		Date:	Block:	
4.4	Geometric Sequenc	es and Series		
Consider the following sequence. {3, 6, 12, 24, 4			notation.	
g 4	, , , , , , , , , , , , , , , , , , , ,			
Geometric Sequences				
Recursive Formula		Exp	olicit Formula	
	,			
Example. Give the recursive and explicit notation	n for the geometric	sequence. {10, 30, 9	0, 270}	
Recursive		Explicit		
Practice 1) Give the recursive and explicit notati	ion for the geometri	c sequence {625-13	25. 25. 5. 1 }	
Recursive	ion for the Beometh	Explicit	20, 20, 0, 1111	

Practice 2) Write the explicit formula for the geometric sequence whose common ratio is 2 and $a_4=12$.

Practice 3) Two terms of a geometric sequence are $a_3 = -48$ and $a_6 = -48$	3072. Write an explicit formula for the sequence.				
Word Problem 1. A virus reproduces by dividing into two, and after a ce virus continues to reproduce, it will continue to divide in two. How man virus AFTER 10 divisions?					
Geometric Series Example 1. Write each geometric series below in sigma notation.					
a) 5 + 20 + 80 + 320+ +81,920	b) 15 - 30 + 60 - 120 + 240 - 480 + ···				