Algebra 1 Day 1: Sequences	Unit 11: Comparing Functions Name	Practice	
Practice Assignment		Block:	
For the following sequences, identify the typ 110, -4, 2, 8, 14,	be, create the explicit formula. Then fi Formula:	nd the stated nth term. Find a ₂₆ =	
2. 4, 5, 6.25,	Formula:	Find a9	
3. 3, 6, 12,	Formula:	Find a ₁₀	
4. 12, 8, 4, 0	Formula:	Find a ₃₁ =	
5. 6, 11, 16,	Formula	Find a ₄₂ =	
6. 5, -25, 125,	Formula:	Find a ₈ =	
7. 36, 31, 26, 21,	Formula:	Find a17 =	

Algebra 1	Unit 11: Comparing Functions			
For the given information, generate the first five terms:				

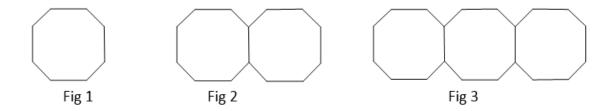
8. $a_n = 3(2)^{n-1}$	9. $a_n = 5n + 1$	10. a _n = 5(-2) ⁿ⁻¹

11.
$$a_n = -7n - 8$$
 12. $a_n = 12(1/4)^{n-1}$ 13. $a_n = 6n$

For the given information, use it to create an explicit rule.

14. Geometric: a₄ = 16, r = 2 15. Geometric: a₅ = -64, r = 4 16. Arithmetic: a₈ = 36, d = 2

17. Count the number of lines creating each figure and answer the questions below:



Complete the table below:

Fig #	1	2	3	4	5
# of lines					

a. Write the **EXPLICIT** rule for the number of lines needed to generate each shape.

b. How many lines would be used to create figure #20?