Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_ Scores: #1:\_\_\_\_\_

**HW #15**

**Learning Target #1:** “I can recognize that sequences are functions with limited domain.” F-IF-3

Describe the connection between arithmetic sequences and a family of functions.

Describe the connection between geometric sequences and a family of functions.

**Learning Target #2:** “I can identify sequences as either arithmetic or geometric.”

How can you tell if a sequence is arithmetic or geometric?

**Learning Target #3:** “I can construct arithmetic sequences in the four representations: situation, table, graph, and equation, and use them to model situations.” F-LE-2, F-BF-2

**Learning Target #4:** “I can construct geometric sequences in the four representations: situation, table, graph, and equation, and use them to model situations.” F-LE-2, F-BF-2

5-87. Write the first five terms of each sequence. Homework Help ✎

5-105. For this problem, refer to the sequences graphed below. Homework Help ✎ Identify each sequence as arithmetic, geometric, or neither. Write both explicit and recursive equations for the arithmetic and geometric sequences.



**Learning Target #5:** “I can write arithmetic and geometric sequences both explicitly and recursively.” F-BF-2

5-77. Write both an explicit equation and a recursive equation for the sequence: 5, 8, 11, 14, 17, …

Write both an explicit equation and a recursive equation for the sequence: 7, 15.4, 33.88, 74.536…

Review:

1. What the equation of this line.

 5-86. Solve the system of equations below. Homework Help ✎

5-89. Find the missing areas and dimensions for each generic rectangle below. Then write each area as a sum and as a product. Homework Help ✎



