Math 4 Honors Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lesson 5-6 Learning Check Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In this learning check, you will be assessed on the following objectives:

* *I can find terms of a sequence with both types of rules – recursive and explicit.*
* *I can write explicit and recursive rules for sequences.*
* *I can use the explicit and recursive rules of sequences to solve problems.*

1.Find the first five terms in each of the following sequences. Also state whether the formula for each

 sequence is recursive, explicit or neither.

 a)  b) 

2. Find the 30th term in the following sequence: 5, 4.5, 4.05, 3.645, ….

 *Round to the nearest 10,000th.*

3. Find an explicit rule for the following sequence: 18, 56, 120, 216, 350, …

 *Write your answer in factored form.*

4. Find the missing terms in the arithmetic sequence below. *Show work and/or explain your reasoning.*

 14, \_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_, -6, …

5. Given the following geometric sequence, which term in the sequence is ?

*Show work or explain your reasoning.*

 24, \_\_\_\_\_, \_\_\_\_\_, 3, …