Algebraic Reasoning

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Per:\_\_\_\_\_

POINTS:\_\_\_\_

Homework #8 Quiz

**Be sure to include your work when appropriate.**

1. Write an explicit rule that describes the number of items used to construct the pattern in terms of the term number, n.



**Write a recursive rule and an explicit rule for**

**the geometric sequence.**

2. 2, 6, 18,54, 162, …

3. 64, 16, 4, 1, 0.25, …

For the recursive rule and explicit rule given,

write the first four terms in the sequence.

4. a1 = 3; an = 4an-1

 an = 3 \* 4n-1

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