

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. $a_1 = 3$; $a_n = 4a_{n-1}$
 $a_n = 3 \cdot 4^{n-1}$

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. $a_1 = 3$; $a_n = 4a_{n-1}$
 $a_n = 3 \cdot 4^{n-1}$