

Algebraic Reasoning

Name: _____

Per: _____

POINTS: _____

Homework #7 Quiz

Be sure to include your work when appropriate.

Write a recursive rule and an explicit rule for the arithmetic sequence.

1. 1, 8, 15, 22, 29, ...

2. 147, 127, 107, 87, 67, ...

For each recursive rule and explicit rule given, write the first four terms in the sequence.

3. $a_1 = 9.5$; $a_n = a_{n-1} + 6.5$
 $a_n = 3 + 6.5n$

4. $a_1 = 140$; $a_n = a_{n-1} - 30$
 $a_n = 170 - 30n$

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