Algebraic Reasoning	
Name:	_

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Name:_____

Per:____

POINTS:____

Homework #7 Quiz

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Be sure to include your work when appropriate.

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

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

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Per:____

POINTS:____

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

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

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

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

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