

Name: _____

Date: _____

QUIZ – SEQUENCES AND SERIES

1. (48%) Given the following sequences.

- a. (4%) Write the next term.
- b. (4%) Write for each one: Geometric sequence, Arithmetic sequence or neither.
- c. (4%) Write the general term (if arithmetic or geometric only)

–3, –8, –13, –18, _____ Geo. / Ari. / Neither (circle the right option)

General term: _____

–3, 3, –2, 2, _____ Geo. / Ari. / Neither (circle the right option)

General term: _____

–2, 6, –18, 54, _____ Geo. / Ari. / Neither (circle the right option)

General term: _____

297, 99, 33, 11, _____ Geo. / Ari. / Neither (circle the right option)

General term: _____

2. (12%) Sum the first 50 terms of sequence: 17, 12, 7, 2...

3. (20%) Find: $6 + 11 + 16 + 21 + \dots + 171$

4. (20%) Given the sequence ..., 108, 36, 12, 3, ...

a. (5%) What kind of a sequence is this? _____

b. (5%) Given that 36 is the 4th term, find the 1st term: _____

c. (10%) Write down the general term.