Algebra 2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Finite Geometric Series WS#1 Per. \_\_\_\_\_\_\_\_\_\_

Find the sum of each geometric series.

1. S6 for 2 + 0.2 + 0.002 + …
2. S5 for 12 – 24 + 48 – 96 + …
3. S8 for 10 + 1 + + + …

Given each geometric sequence, (a) write an explicit rule for the sequence, (b) find the 10th term, and (c) find the sum of the first 10 terms.