

Algebra 2
Geometric Series

Name: _____
Period: _____

1. Consider the geometric sequence 187.5, 75, 30, 12, ... a. What is u_{10} ? b. Find u_9 c. Find S_9

2. Given $\sum_{n=1}^{15} 12.5(1.1)^{n-1}$ a. Find u_1 b. Find r c. Evaluate

Find the missing values of each geometric series.

3. $u_1 = 4, r = 3, S_{10} = \underline{\hspace{2cm}}$ 4. $u_1 = \underline{\hspace{2cm}}, r = 1.1, S_6 = 92.58732$

5. Find the sum a. $5 + 6.2 + 7.4 + \dots + 17$ b. $\sum_{n=1}^{50} (72 - 3.5n)$

6. pg. 535 (2-4, 5ac, 7, 8, 10)

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