

(C2-7.4a)

Name:

Homework Questions 4 – Partial sums of Geometric Sequences

1. Find the sum of the first 10 terms of the following sequences

a) 17, 51, 153, 459

501908

b) 100, 40, 16, 6.4

166.65

c) 1, 5, 25, 125

2441406

d) 6561, 729, 81, 9

7381.125

2. Find the sum of the following geometric sequences if you are given the first and the last term

a) 4, 6.4, 10.24, 16.384,67.108864

172.29

b) 15, 30, 120, 240,61440

61425

3. After how many terms does the sum of the sequence equal the following

a) $t_2 = -4$ $t_5 = 32$ $S_n = -1024$

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b) $t_3 = 45$ $t_6 = 1215$ $S_n = 2657205$

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