

(C2-7.4) 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

b) 100, 40, 16, 6.4

c) 1, 5, 25, 125

d) 6561, 729, 81, 9

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

b) 15, 30, 120, 240,61440

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

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

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