Homework Questions 6 – Partial sums of Arithmetic Sequences

- 1. Find the sum of the following series
 - 17, 25, 33, 41...(25 terms) a)
 - 15, 26, 37, 42....(15 terms) b)
 - 143, 130, 117, 104....(22 terms) c)
 - 96, 90.5, 85, 79.5....(21 terms) d)
- 2. Find the sum of the following arithmetic sequences if you are given the first and the last term
 - a) 5, 19, 33, 47,.....243
 - 271, 263, 255, 247,95 b)
 - 78, 65, 52, 39,-104 c)
- 3. After how many terms does the sum of the sequence equal the following
 - a) 6, 13, 20, 27 equal 1596
 - b) 18, 44, 70, 96 equal 11850

4. Find the 3rd term of the arithmetic sequence if the 6th term is 24 and the 15th term is 21

 $a = 25\frac{2}{3}$ $d = -\frac{1}{3}$ 3rd term = 25

858

789

N=18 2232

N=23 4209

N=15 -195

21

30

732

906