(C1-6.7) Name:

Homework Questions 7 – Sigma Notation

- 1. Rewrite the following sums using the sigma notation
 - a) $2+8+14+20+\ldots+74$
 - b) $96 + 89 + 82 + 75 + \dots + 19$
 - c) Multiples of 4 less than 50
 - d) 8 + 12 + 16 + 20 + 24
- 2, Calculate the following



a)

b)
$$\sum_{r=1}^{r=5} 2r+1$$

c)
$$\sum_{r=1}^{r=10} r^2 - 3$$

h)
$$\sum_{r=1}^{r=4} (r-6)^2$$

3. For what values of n does
$$\sum_{r=1}^{n} (n^2 + 5)$$
 first exceed 500?



4. For what value of n would $\sum_{r=1}^{n} (25 - 6r) = 7$

