## (C1-6.7) Name:

## Homework Questions 7 - Sigma Notation

1. Rewrite the following sums using the sigma notation
a) $2+8+14+20+\ldots \ldots+74$
b) $96+89+82+75+\ldots \ldots+19$ $\square$
c) Multiples of 4 less than 50

d) $8+12+16+20+24$


2, Calculate the following
a)

$$
\sum_{r=1}^{r=7} r^{2}
$$


b)

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

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 $\sum_{r=1}^{n}\left(n^{2}+5\right)$ first exceed 500 ?
$\square$
4. For what value of n would $\sum_{r=1}^{n}(25-6 r)=7$

