

**Lab #2 Summations from 1 and 0**

1) 8

$$\sum_{k=1} k = 36$$

2) 50

$$\sum_{i=1} (i+1) = 1325$$

3) n

$$\sum_{i=1} (3i) = (3(n(n+1)))/2$$

4) 50

$$\sum_{H=0} (1) = 51$$

5) 10

$$\sum_{i=0} (4) = 44$$

6)  $2n^2$

$$\sum_{k=1} (k) = (2n^2 (2n^2 + 1))/ 2$$

7) 22

$$\sum_{i=1} (3i + 3) = 825$$

8) 5

$$\sum_{i=1} (4i + 21) = 165$$

9) 20

$$\sum_{j=1} (3j) = 630$$

10) 5

$$\sum_{i=0} (6i) = 90$$

11) 33

$$\sum_{i=0} (2i - 5i) = -1683$$

12) 50

$$\sum_{n=1} (n + 2n) = 2805$$