

Computer Science I – Spring 2012
Summation Homework: Due Wednesday 2/15/12, IN CLASS
Assignments will not be accepted once the class starts.

Evaluate the following sums:

$$1) \sum_{i=10}^{100} (3i + 4)$$

$$2) \sum_{i=5}^{2n} i$$

$$3) \sum_{i=1}^{4n} n^3 i$$

$$4) \sum_{i=1}^n \sum_{j=1}^i 4$$

$$5) \sum_{i=10}^{100} \left(1 + \sum_{j=1}^i 12j \right)$$

$$6) \sum_{i=n-1}^{2n} i$$

$$7) \sum_{i=n+1}^{2n} (2i + 3n^2)$$

$$8) \sum_{i=1}^n \left(3 \sum_{j=1}^n 2ij \right)$$