COSC 311 Quiz #3

1/28/10

Name:

1. You count the execution time of a program and determine that $T(n) = 50 \text{ n log } n + 2000 \text{ n } + 50 + 0.00001 \text{ n}^3$.

Clearly this is an $O(n^3)$ program.

However, suppose $n = 10^6$. What is the most significant term of T(n) for $n = 10^6$?

2. What is $\sum_{i=1}^{n} (3i)$? (The answer should not contain i).