Name_____UIN_____

Quiz 1 CPSC 411 Spring 2009

Problem 1 (2 points)

State the definition of $f(n) \in O(g(n))$ for some functions $f, g: \mathbb{Z} \to \mathbb{R}$ (assuming that the argument *n* approaches ∞ , as usual).

Problem 2 (1 point) True or false. Is $4n^2 + 2n + 4 \in O(n^2 + n + 1)$?

Problem 3 (2 points) What is the divide-and-conquer paradigm?