**ECE/CS 598NV**
**Special Topics (Distributed Algorithms for Wired and Wireless Networks)**
**Fall 2009**

**Homework 5**
Total points: 15 Due: 11:00 a.m. on December 1, 2009 (Tuesday)

Provide explanations for your answers.

1. (5 points) This question relates to chapter 9.
   State true or false **with an explanation**: If a sequentially consistent shared memory contains only 1 variable, then it is also a linearizable shared memory.

2. (5 points) Problem 8.10 in the textbook

3. (5 points) Draw the neighborhood graph as defined in the paper *On the Complexity of Distributed Graph Coloring*, for $\Delta = 2$ and $m = 3$.