Discrete Math Exam 1, Take-home part, Math/CS 150, Jason Grout, Spring 2013

Write up complete answers to the exam problems listed at the bottom of this sheet. Turn in this signed sheet, as well as your answers to the problems. This part of the exam is due at the start of class on Monday, 25 Mar 2013.

While completing this exam, you may refer to

1. The class textbook

2. Your own class notes

3. Your calculator

You *may not* use *any* other materials/resources. The following list is not exhaustive but is a reminder of some specific things you're not allowed to use while completing this exam:

1. You *may not* use the Internet

2. You *may not* use the work (including class notes) of other students (whether those students are in the class this semester or not).

3. You *may not* use books other than the official class textbook.

After completing the exam, sign the following statement to indicate that you have followed these instructions:

> I certify that all of the answers on this exam are the result of my own efforts. I have not consulted with others nor used any sources not specifically allowed by the instructions on this page in the completion of any part of this exam. I have not provided help to any others for this exam.

Name (printed): _____

Signature: _____ **Date:** _____

Exam Problems

1. Problem 71 (you may use *your* notes of our class discussion, the picture I sent in email from the class board, and the online hint given in the textbook as resources in this problem).

2. Supplemental Problem 5 on p. 31 ("A list of parentheses is said to be balanced...")

3. Supplemental Problem 11 on p. 32 ("We have n identical ping-pong balls. In how many ways may we paint them red, white, blue, and green?")