

CS 223: Homework 5. Due October 25.

This assignment should be treated like a mini-take-home-midterm. So, for this assignment, please *do not collaborate* with your fellow students. Your work, your solutions, your writeup should be entirely your own. You may use standard mathematical software (Perl, Maple, Matlab, etc.) and you may write programs to help you determine answers when the situation calls for it. For problems where numerical answers are required, please **CLEARLY** give your numerical answers at the beginning of your solution. This will make it easier to grade your paper (ensuring a higher score).

1. Section 5.8 of the textbook is “An Exploratory Assignment.” Please do this assignment.