

## CMSC/MATH 456, Fall 2008

Homework 4, due at the beginning of class on October 14th

**Instructions.** The homework should be your own work, without any collaboration or consulting sources such as the Web. Please include partial solutions if you cannot fully solve a problem. Neatly write your solutions and staple your work; late homework will not be accepted. *All problems below are the numbered exercises given in the textbook.*

0. Read and understand the proof of Theorem 3.29. **(0 points)**
1. Exercise 3.17. **(20 points)**
2. Exercise 3.20. **(20 points)**