

Assignment 2 for MTH G341: Spring 2005

Due date: Monday January 24.

Reading: Chapter 5.

Problems:

1). p. 330, #3, #4, #12, #14, #23.

2). A set of 4 computers is to be connected by (expensive) fiber optic lines. To keep costs down, you will build only enough links to guarantee that all computers are interconnected, namely three links. Assume that the cost of each of the six possible links is an exponential random variable with mean 1, and these costs are independent. Compute the expected costs of the following two strategies: (a) pick at random three links which connect the computers, (b) pick the cheapest set of three links which connect the computers.