Homework 1, Due day: Feb. 2

All solutions should be typed, using Latex preferably.

(1) Chapter 1, 3

(2) In the man-optimal GS algorithm, show that there is no incentive for a boy to derivate from the protocol, while there is incentive for a girl to derivate under certain preference tables. Provide an example with 4 boys and 4 girls where a girl will get a match if she does not follow the protocol.

(3) Chapter 2, 1

(4) Chapter 2, 4

(5) Chapter 4, 4

(6) Chapter 4, 12