## Attendance Quiz for Lecture 7

NAME: (print!)

E-MAIL ADDRESS: (print!)

1. Consider the linear programming problem

Maximize $z=3 x+2 y$ subject to

$$
2 x-y \leq 6 \quad, \quad 2 x+y \leq 10 \quad, \quad x \geq 0 \quad, \quad y \geq 0 .
$$

(a) Transform this problem to a problem in canonical form.
(b) Find all basic solutions and label them according to whether there are feasible $(f)$ or not faesible ( $n$ )
(c) Find the optimal solution (or solutions in case there is more than one) and the optimal value.

