

Attendance Quiz for Lecture 4

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Write the following linear programming problem in matrix form.

Maximize $z = x + 3y$ subject to the restrictions

$$5x + y \leq 5 \quad , \quad -x + 4y \leq 8 \quad , \quad -11x + 4y \leq 12 \quad , \quad x \geq 0 \quad , \quad y \geq 0 \quad .$$

2. By introducing slack variables (give them names), write the above problem in **canonical form** (expressed, again, in matrix form).