

## Attendance Quiz for Lecture 12

NAME: (print!) \_\_\_\_\_

E-MAIL ADDRESS: (print!) \_\_\_\_\_

1. Find the dual of the given linear programming problem.

Minimize  $9x_1 + 4x_2 + 3x_3 + 9x_4$

subject to

$$x_1 + 3x_2 + x_3 + x_4 \geq 5 \quad , \quad 4x_1 + x_2 + 6x_3 + 9x_4 \geq 8 \quad ,$$

$$x_1 \geq 0 \quad , \quad x_2 \geq 0 \quad , \quad x_3 \geq 0 \quad , \quad x_4 \geq 0 \quad .$$