NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. (8 pts.) Find the dual of the given linear programming problem.

Minimize $5\,x_1 \,+\, 2\,x_2 \,+\, 6\,x_3$

subject to

$$4x_1 + 2x_2 + x_3 \geq 12 \quad , \quad 3x_1 + 2x_2 + 3x_3 \leq 6 \quad ,$$

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