## Attendance Quiz for Lecture 13

NAME: (print!) $\qquad$

E-MAIL ADDRESS: (print!)

1. For the following linear programming problem

Minimize $z=4 x+6 y$ subject to

$$
x+3 y \geq 5 \quad, \quad 2 x+y \geq 4 \quad, \quad x \geq 0 \quad, \quad y \geq 0 .
$$

(i) Solve it (using any method), not forgetting to find the optimal value.
(ii) Set-up the dual problem .
(iii) Solve the dual problem (using any method), not forgetting to find the optimal value.
(iv) If you solved them both correctly the optimal values for (i) and (iii) are the same. Is this a coincidence? If not what theorem does it follow from?

