Exercise 29.4-1

Dual form:

Minimize $20y_1 + 12y_2 + 16y_3$

Subject to

$$y_1 + y_2 \geq 18$$
$$y_1 + y_3 \geq 12.5$$
$$y_1, y_2, y_3 \geq 0$$

Exercise 29.5-5

Solution to LP:

$$(x_1, x_2) = (34/3, 10/3)$$, Objective value $z = 64/3$. 