



 $x_1 + 9x_2 \le 60$ $2x_1 + 3x_2 \le 45$

 $5x_1 - 2x_2 \le 20$ $x_2 \le 30$ $-4x_1 - 7x_2 \le -2$ and $x_1, x_2 \ge 0$;

Dual is (Solution steps of Dual by BigM method)

MIN $Z_y = 60y_1 + 45y_2 + 20y_3 + 30y_4 - 2y_5$ subject to $y_1 + 2y_2 + 5y_3 - 4y_5 \ge 5$

$$y_1 + 2y_2 + 5y_3 - 4y_5 \ge 5$$

 $9y_1 + 3y_2 - 2y_3 + y_4 - 7y_5 \ge 6$
and $y_1, y_2, y_3, y_4, y_5 \ge 0$;

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