

A Maximization Linear Program

We will solve the following linear program using the Simplex Method.

$$\begin{array}{ll} \text{maximize} & 3x_1 + x_2 \\ \text{subject to} & \\ & -2x_1 + x_2 \leq 2 \\ & x_1 + 2x_2 \leq 6 \\ & x_1 \leq 4 \\ & x_1, x_2 \geq 0 \end{array} \quad (\text{LP})$$