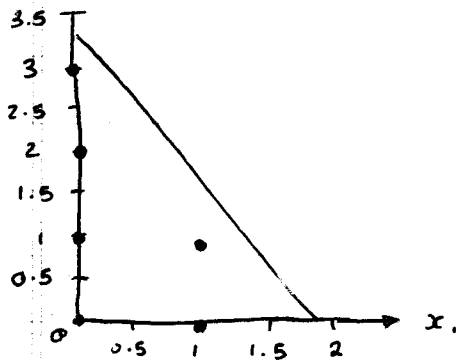


(1)

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$$S_{LP} = \{ (0,0), (1,0), (0,1), (0,2), \dots, (0.3)(1,1) \}$$

CS_{LP}

$$Z_{LP} = 39$$

$$Z_1 + 13/2 + 11 \times 0$$

$$Z_1 + 0 + 11 \times 3$$

$$Z_{LP} = 33$$

$$\begin{bmatrix} x_1^* \\ x_2^* \end{bmatrix}_{LP} = \begin{bmatrix} 13/2 \\ 0 \end{bmatrix} \quad \left| \quad \begin{bmatrix} x_1^* \\ x_2^* \end{bmatrix}_{LP} = \begin{bmatrix} 0 \\ 3 \end{bmatrix} \right.$$

$$\text{Max } Z = 8x_1 + 5x_2$$

$$x_1 + x_2 \leq 6$$

$$9x_1 + 5x_2 \leq 45$$

$$x_1 \geq 4$$

$$x_1, x_2 \geq 0$$