

LP Simplex Method (3)

1. Solve the following LP problem using the simplex method and by TORA:

$$\begin{array}{ll}\text{Maximize} & Z = 2 X_1 + 3 X_2 - 5 X_3 \\ \text{Subject to} & X_1 + X_2 + X_3 = 7 \\ & 2 X_1 - 5 X_2 + X_3 \geq 10 \\ & X_1, X_2, X_3 \geq 0\end{array}$$

2. Solve the following LP problem by Excel Solver:

$$\begin{array}{ll}\text{Minimize} & Z = 4 X_1 + X_2 \\ \text{Subject to} & 3 X_1 + X_2 = 3 \\ & 4 X_1 + 3 X_2 \geq 6 \\ & X_1 + 2 X_2 \leq 4 \\ & X_1, X_2 \geq 0\end{array}$$