

ΜΕΘΟΔΟΣ SIMPLEX

$$\begin{aligned} & \max \{c_1x_1 + c_2x_2 + \dots + c_nx_n\} \\ & \bar{P}_1x_1 + \bar{P}_2x_2 + \dots + \bar{P}_nx_n = \bar{b} \\ & x_j \geq 0, \quad j = 1, 2, \dots, n \\ & b_i \geq 0, \quad i = 1, 2, \dots, m \end{aligned} \tag{2.1}$$

$$\sum_{i=1}^m \bar{P}_i x_i = \bar{b} \tag{2.2}$$

$$\bar{P}_j = \sum_{i=1}^m \mu_{ij} \bar{P}_i, \quad j = 1, 2, \dots, n \tag{2.3}$$

$$z_j = \sum_{i=1}^m \mu_{ij} c_i, \quad j = 1, 2, \dots, n \tag{2.4}$$

$$\bar{c}^t \bar{x} - \bar{c}^t \bar{y} = \sum_{j=m+1}^n y_j (z_j - c_j) \tag{2.9}$$