

$$3 - i) \min 12y$$

Sujeito a

$$\begin{pmatrix} 1 \\ 2 \\ 4 \end{pmatrix} y \geq \begin{pmatrix} 2 \\ 3 \\ 2 \end{pmatrix}$$

$$y \geq 0$$

$y$  é pelo menos 2.

Solução ótima: 2

$$\text{Valor: } 12 \cdot 2 = 24$$

$$ii) \begin{array}{ccc|ccc|c} 2 & 0 & 0 & 1 & 6 & 2 & 0 & 24 \\ 1 & 0 & 1 & 2 & 4 & 1 & 0 & 12 \\ 0 & 1 & 1 & 1 & 2 & 0 & 1 & 10 \end{array}$$

$$\begin{array}{ccc|ccc|c} 2 & 0 & 0 & 1 & 6 & 2 & 0 & 24 \\ 1 & 0 & 1 & 2 & 4 & 1 & 0 & 12 \\ 1 & -1 & 0 & 1 & 2 & 1 & -1 & 2 \end{array}$$

$$\begin{array}{ccc|ccc|c} 1 & 1 & 0 & 0 & 4 & 1 & 1 & 22 \\ -1 & 2 & 1 & 0 & 0 & -1 & 2 & 8 \\ 1 & -1 & 0 & 1 & 2 & 1 & -1 & 2 \end{array}$$

$$\text{Solução: } [8 \ 2 \ 0]$$