

$$A = \left(\begin{array}{ccc|ccc} x_4 & x_2 & x_3 & x_1 & x_5 & x_6 \\ \hline & N_2 & & & B_2 & \end{array} \right)$$

$$\gamma_2 = C_{N_2}^T - C_{B_2}^T B_2^{-1} N_2 = (0 \ -3 \ 1) - (-1 \ 0 \ 0) \begin{pmatrix} 1/2 & 1/2 & 0 \\ -1/2 & 1/2 & 3 \\ -1 & 0 & 3 \end{pmatrix}$$

$$= (0 \ -3 \ 1) - (-1/2 \ -1/2 \ 0) = (1/2 \ -5/2 \ 1)$$

• Criterio ottimalità: non soddisfatto
• = "limitatezza" =

$h = 2 \rightarrow x_2$ entrante

- scelgo κ

$$\min \left\{ \frac{(B^{-1}b)_i}{(\pi_n)_i} \right\} = \min \left\{ \frac{3/2}{1/2}, \frac{9/2}{1/2}, \frac{5}{0} \right\} \Rightarrow \kappa = 1 \rightarrow x_1 \text{ uscente}$$

$$\kappa = 1 \rightarrow M = \left(\begin{array}{ccc|cc} \pi_n & \pi_1 & e_n & \pi_3 & B_2^{-1}b \\ \hline 1/2 & 1/2 & 1 & 0 & 3/2 \\ 1/2 & -1/2 & 0 & 3 & 9/2 \\ 0 & -1 & 0 & 3 & 5 \end{array} \right) = \left(\begin{array}{ccc|cc} & & & & \\ \hline 1 & 1 & 2 & 0 & 3 \\ 0 & -1 & -1 & 3 & 3 \\ 0 & -1 & 0 & 3 & 5 \end{array} \right)$$

$$A = \left(\begin{array}{ccc|ccc} x_4 & x_1 & x_3 & x_2 & x_5 & x_6 \\ \hline & N_3 & & & B_3 & \end{array} \right)$$

$$\gamma_3 = C_{N_3}^T - C_{B_3}^T B_3^{-1} N_3 = (0 \ -1 \ 1) - (-3 \ 0 \ 0) \begin{pmatrix} 1 & 2 & 0 \\ -1 & -1 & 3 \\ -1 & 0 & 3 \end{pmatrix} =$$

$$= (0 \ -1 \ 1) - (-3 \ -6 \ 0) = (3 \ 5 \ 1)$$

• Criterio ottimalità: soddisfatto

$$x^* = (0 \ 3 \ 0 \ 0 \ 3 \ 5)$$

• soluzione nel in FS $\rightarrow (0 \ 3 \ 0)$

$$x_B^* = B^{-1}b \geq 0_m$$

$$x_N^* = 0_m$$