

28. feladat

$$A = \begin{pmatrix} 1 & 3 \\ 4 & 2 \end{pmatrix}$$

legyen $y^T = (y_1 \ y_2)$.

Írjuk fel a harmadik feladatot y^T -re:

$$y_1' + 3y_2' \leq 1$$

$$4y_1' + 2y_2' \leq 1$$

$$y_1', y_2' \geq 0$$

$$y_i' = \frac{y_i}{V} \quad \forall i \in \{1, 2\}.$$

$$y_1' + y_2' \rightarrow \max$$

	y_1'	y_2'	
u_1	1	3	1
u_2	4^*	2	1
	1	1	0

1. lépés
 $\Rightarrow$

	u_2	y_2'	
u_1	$-1/4$	$5/2^*$	$3/4$
y_1'	$1/4$	$1/2$	$1/4$
	$-1/4$	$1/2$	$-1/4$

2. lépés
 $\Rightarrow$

	u_2	u_1	
y_2'	$-1/10$	$2/5$	$3/10$
y_1'	X	$-2/10$	$1/10$
	X	$-2/10$	$-4/10$

Innen $y_1' = \frac{1}{10}$, $y_2' = \frac{3}{10}$ és $\frac{1}{V} = \frac{4}{10}$,

eset $V = \frac{10}{4} \Rightarrow y_1 = \frac{1}{10} \cdot \frac{10}{4} = \frac{1}{4}$

$$y_2 = \frac{3}{10} \cdot \frac{10}{4} = \frac{3}{4}$$

Innen már látszik, hogy $y^T = (1/4 \quad 3/4)$.

Gyors ellenőrzés behelyettesítéssel:

$$y = \frac{2 - 3}{1 - 3 - 4 + 2} = \frac{-1}{-4} = \underline{\underline{\frac{1}{4}}}$$

$$y^T = (y \quad 1-y) = (1/4 \quad 3/4). \quad \checkmark \quad \text{OK.}$$

$$v = \frac{2 - 12}{-4} = \frac{-10}{-4} = \underline{\underline{\frac{10}{4}}} \quad \checkmark \quad \text{OK.}$$