

Primer 2

Optimalna Simpleks tablica:

baza	b	x_1	x_2	w_1	w_2
-z	$-\frac{95}{4}$	0	0	$-\frac{5}{2}$	$-\frac{1}{4}$
x_2	$\frac{5}{4}$	0	1	$\frac{5}{2}$	$-\frac{1}{4}$
x_1	$\frac{15}{4}$	1	0	$-\frac{3}{2}$	$\frac{1}{4}$

Ubačena jednačina za x_2 :

baza	b	x_1	x_2	w_1	w_2	w_3
-z	$-\frac{95}{4}$	0	0	$-\frac{5}{2}$	$-\frac{1}{4}$	0
x_2	$\frac{5}{4}$	0	1	$\frac{5}{2}$	$-\frac{1}{4}$	0
x_1	$\frac{15}{4}$	1	0	$-\frac{3}{2}$	$\frac{1}{4}$	0
w_3	$-\frac{1}{4}$	0	0	$-\frac{1}{2}$	$-\frac{3}{4}$	1

$$\min\{5, \frac{1}{3}\} = \frac{1}{3}$$

$$w_3 \leftrightarrow w_2$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	$-\frac{71}{3}$	0	0	$-\frac{7}{3}$	0	$-\frac{1}{3}$
x_2	$\frac{4}{3}$	0	1	$\frac{8}{3}$	0	$-\frac{1}{3}$
x_1	$\frac{11}{3}$	1	0	$-\frac{5}{3}$	0	$\frac{1}{3}$
w_2	$\frac{1}{3}$	0	0	$\frac{2}{3}$	1	$-\frac{4}{3}$

Ubačena jednačina za x_1 :

baza	b	x_1	x_2	w_1	w_2	w_3
-z	$-\frac{95}{4}$	0	0	$-\frac{5}{2}$	$-\frac{1}{4}$	0
x_2	$\frac{5}{4}$	0	1	$\frac{5}{2}$	$-\frac{1}{4}$	0
x_1	$\frac{15}{4}$	1	0	$-\frac{3}{2}$	$\frac{1}{4}$	0
w_3	$-\frac{3}{4}$	0	0	$-\frac{1}{2}$	$-\frac{1}{4}$	1

$$\min\{5, 1\} = 1$$

$$w_3 \leftrightarrow w_2$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-23	0	0	-2	0	-1
x_2	2	0	1	3	0	-1
x_1	3	1	0	-2	0	1
w_2	3	0	0	2	1	-4