

Primer 1

baza	b	x_1	x_2	w_1	w_2
-z	0	7	9	0	0
w_1	6	-1	3	1	0
w_2	35	7	1	0	1

$$x_2 \leq \min\{\frac{6}{3}, \frac{35}{1}\} = 2$$

$$x_2 \leftrightarrow w_1.$$

baza	b	x_1	x_2	w_1	w_2
-z	-18	10	0	-3	0
x_2	2	$-\frac{1}{3}$	1	$\frac{1}{3}$	0
w_2	33	$\frac{22}{3}$	0	$-\frac{1}{3}$	1

$$x_1 \leq \min\{\frac{9}{2}\} = \frac{9}{2}$$

$$x_1 \leftrightarrow w_2.$$

baza	b	x_1	x_2	w_1	w_2
-z	-63	0	0	$-\frac{28}{11}$	$-\frac{15}{11}$
x_2	$\frac{7}{2}$	0	1	$\frac{7}{22}$	$\frac{1}{22}$
x_1	$\frac{9}{2}$	1	0	$-\frac{1}{22}$	$\frac{3}{22}$

Optimalno!

baza	b	x_1	x_2	w_1	w_2	w_3
-z	0	7	9	0	0	0
w_1	6	-1	3	1	0	0
w_2	35	7	1	0	1	0
w_3	3	0	1	0	0	1

$$x_2 \leq \min\{\frac{6}{3}, \frac{35}{1}, \frac{3}{1}\} = 2$$

$$x_2 \leftrightarrow w_1.$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-18	10	0	-3	0	0
x_2	2	$-\frac{1}{3}$	1	$\frac{1}{3}$	0	0
w_2	33	$\frac{22}{3}$	0	$-\frac{1}{3}$	1	0
w_3	1	$\frac{1}{3}$	0	$-\frac{1}{3}$	0	1

$$x_1 \leq \min\{\frac{9}{2}, 3\} = 3$$

$$x_1 \leftrightarrow w_3.$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-48	0	0	7	0	-30
x_2	3	0	1	0	0	1
w_2	11	0	0	7	1	-22
x_1	3	1	0	-1	0	3

$$w_1 \leq \min\{\frac{11}{7}\} = \frac{11}{7}$$

$$w_1 \leftrightarrow w_2.$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-59	0	0	0	-1	-8
x_2	3	0	1	0	0	1
w_1	$\frac{11}{7}$	0	0	1	$\frac{1}{7}$	$-\frac{22}{7}$
x_1	$\frac{32}{7}$	1	0	0	$\frac{1}{7}$	$-\frac{1}{7}$

Optimalno!

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	0	7	9	0	0	0	0
w_1	6	-1	3	1	0	0	0
w_2	35	7	1	0	1	0	0
w_3	3	0	1	0	0	1	0
w_4	7	1	1	0	0	0	1

$$x_2 \leq \min\{\frac{6}{3}, \frac{35}{1}, \frac{3}{1}, \frac{7}{1}\} = 2$$

$$x_2 \leftrightarrow w_1.$$

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	-18	10	0	-3	0	0	0
x_2	2	$-\frac{1}{3}$	1	$\frac{1}{3}$	0	0	0
w_2	33	$\frac{22}{3}$	0	$-\frac{1}{3}$	1	0	0
w_3	1	$\frac{1}{3}$	0	$-\frac{1}{3}$	0	1	0
w_4	5	$\frac{4}{3}$	0	$-\frac{1}{3}$	0	0	1

$$x_1 \leq \min\{\frac{9}{2}, 3, \frac{15}{4}\} = 3$$

$$x_1 \leftrightarrow w_3.$$

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	-48	0	0	7	0	-30	0
x_2	3	0	1	0	0	1	0
w_2	11	0	0	7	1	-22	0
x_1	3	1	0	-1	0	3	0
w_4	1	0	0	1	0	-4	1

$$w_1 \leq \min\{\frac{11}{7}, \frac{1}{1}\} = 1$$

$$w_1 \leftrightarrow w_4.$$

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	-55	0	0	0	0	-2	-7
x_2	3	0	1	0	0	1	0
w_2	4	0	0	0	1	6	-7
x_1	4	1	0	0	0	-1	1
w_1	1	0	0	1	0	-4	1

Optimalno!

Algoritam dualnog Simpleksa

baza	b	x_1	x_2	w_1	w_2
-z	0	7	9	0	0
w_1	6	-1	3	1	0
w_2	35	7	1	0	1

$$x_2 \leq \min\{\frac{6}{3}, \frac{35}{1}\} = 2$$

$$x_2 \leftrightarrow w_1.$$

baza	b	x_1	x_2	w_1	w_2
-z	-18	10	0	-3	0
x_2	2	$-\frac{1}{3}$	1	$\frac{1}{3}$	0
w_2	33	$\frac{22}{3}$	0	$-\frac{1}{3}$	1

$$x_1 \leq \min\{\frac{9}{2}\} = \frac{9}{2}$$

$$x_1 \leftrightarrow w_2.$$

baza	b	x_1	x_2	w_1	w_2
-z	-63	0	0	$-\frac{28}{11}$	$-\frac{15}{11}$
x_2	$\frac{7}{2}$	0	1	$\frac{7}{22}$	$\frac{1}{22}$
x_1	$\frac{9}{2}$	1	0	$-\frac{1}{22}$	$\frac{3}{22}$

Optimalno!

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-63	0	0	$-\frac{28}{11}$	$-\frac{15}{11}$	0
x_2	$\frac{7}{2}$	0	1	$\frac{7}{22}$	$\frac{1}{22}$	0
x_1	$\frac{9}{2}$	1	0	$-\frac{1}{22}$	$\frac{3}{22}$	0
w_3	$-\frac{1}{2}$	0	0	$-\frac{7}{22}$	$-\frac{1}{22}$	1

$$\min\{8, 30\} = 8$$

$$w_1 \leftrightarrow w_3.$$

baza	b	x_1	x_2	w_1	w_2	w_3
-z	-61	0	0	0	$-\frac{13}{11}$	-4
x_2	3	0	1	0	0	1
x_1	$\frac{32}{7}$	1	0	0	$\frac{1}{7}$	$-\frac{1}{7}$
w_1	$\frac{11}{7}$	0	0	1	$\frac{1}{7}$	$-\frac{22}{7}$

Optimalno!

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	-61	0	0	0	$-\frac{13}{11}$	-4	0
x_2	3	0	1	0	0	1	0
x_1	$\frac{32}{7}$	1	0	0	$\frac{1}{7}$	$-\frac{1}{7}$	0
w_1	$\frac{11}{7}$	0	0	1	$\frac{1}{7}$	$-\frac{22}{7}$	0
w_4	$-\frac{4}{7}$	0	0	0	$-\frac{1}{7}$	$-\frac{6}{7}$	1

$$\min\{\frac{71}{11}, \frac{14}{3}\} = \frac{14}{3}$$

$$w_4 \leftrightarrow w_2.$$

baza	b	x_1	x_2	w_1	w_2	w_3	w_4
-z	-55	0	0	0	0	-2	-7
x_2	3	0	1	0	0	1	0
x_1	4	1	0	0	0	-1	1
w_1	1	0	0	1	0	-4	1
w_2	4	0	0	0	1	6	-7