

Данінне завдання. Київськ, 4.

Знайти базисні розв'язки

С3ЛП:

$$x_1 + x_2 + x_3 = 6$$

$$x_1 - 2x_2 + x_4 = 4$$

$$-3x_1 + 2x_2 + x_5 = 6$$

x_1	x_2	x_3	x_4	x_5	b
1	1	1	0	0	6
1	-2	0	1	0	4
-3	2	0	0	1	6
1	1	1	0	0	6
0	-3	-1	1	0	-2
0	5	3	0	1	24
0	3	1	-1	0	2
1	-2	0	1	0	4
0	-4	0	3	1	18

$$\bar{x}_1 = (0; 0; 6; 4; 6)$$

$$\bar{x}_2 = (6; 0; 0; -2; 24)$$

$$\bar{x}_3 = (0; 6; 0; 16; -6)$$

$$\bar{x}_4 = (4; 0; 2; 0; 18)$$

$$\bar{x}_5 = (0; -2; 8; 0; 10)$$

$$\bar{x}_6 = (0; 3; 3; 10; 0)$$

$$\bar{x}_7 = (-2; 0; 8; 6; 0)$$

$$\bar{x}_8 = \left(-5; -\frac{9}{2}; \frac{31}{2}; 0; 0\right)$$

$$\bar{x}_9 = \left(\frac{6}{5}; \frac{24}{5}; 0; \frac{62}{5}; 0\right)$$

$$\bar{x}_{10} = \left(\frac{16}{3}; \frac{2}{3}; 0; 0; \frac{62}{3}\right)$$

x_1	x_2	x_3	x_4	x_5	b
3	0	2	1	0	16
-5	0	-2	0	1	-6
$\frac{3}{2}$	0	1	$\frac{1}{2}$	0	8
$-\frac{1}{2}$	1	0	$-\frac{1}{2}$	0	-2
-2	0	0	1	1	10
$\frac{5}{2}$	0	1	0	$-\frac{1}{2}$	3
-2	0	0	1	1	10
$-\frac{3}{2}$	1	0	0	$\frac{1}{2}$	3
0	$+\frac{5}{3}$	1	0	$\frac{1}{3}$	8
0	$-\frac{4}{3}$	0	1	$\frac{1}{3}$	6
1	$-\frac{2}{3}$	0	0	$-\frac{1}{3}$	-6

x_1	x_2	x_3	x_4	x_5	b
0	0	1	$\frac{5}{4}$	$\frac{3}{4}$	$-\frac{9}{2}$
1	0	0	$-\frac{1}{2}$	$-\frac{1}{2}$	-5
0	1	0	$-\frac{3}{4}$	$\frac{1}{4}$	$\frac{31}{2}$
1	0	$\frac{2}{5}$	0	$-\frac{1}{5}$	$\frac{6}{5}$
0	0	$\frac{2}{5}$	1	$\frac{3}{5}$	$\frac{62}{5}$
0	1	$\frac{3}{5}$	0	$\frac{1}{5}$	$\frac{24}{5}$
0	1	$\frac{1}{3}$	$-\frac{1}{3}$	0	$\frac{2}{3}$
-1	0	$\frac{2}{3}$	$\frac{1}{3}$	0	$\frac{16}{3}$
0	0	$\frac{4}{3}$	$\frac{5}{3}$	1	$\frac{82}{3}$