

$$\begin{array}{rcllcl} \min & 6x_1 & - & 2x_2 & - & 8x_3 & & \\ \text{za podmínek} & x_1 & - & 2x_2 & & & \leq & -6 \\ & x_1 & - & 4x_2 & - & 2x_3 & \leq & 8 \\ & & - & 2x_2 & + & x_3 & \geq & 7 \\ & x_1 & & & & & \geq & 0 \\ & & & x_2 & & & \geq & 0 \\ & & & & & x_3 & \geq & 0 \end{array}$$

$$\begin{array}{llllllll} \min & 6x_1 & -2x_2 & -8x_3 & & & & \\ & -x_1 & +2x_2 & & -x_4 & & +z_1 & = 6 \\ & x_1 & -4x_2 & -2x_3 & & +x_5 & & = 8 \\ & & -2x_2 & +x_3 & & & -x_6 & +z_2 = 7 \end{array}$$

$$\min z_1 + z_2$$

		0	0	0	0	0	0	1	1
		$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$z_1$	$z_2$
$z_1$	6	-1	2	0	-1	0	0	1	0
$x_5$	8	1	-4	-2	0	1	0	0	0
$z_2$	7	0	-2	1	0	0	-1	0	1

			$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$z_1$	$z_2$
	$z_1$	6	-1	2	0	-1	0	0	1	0
	$x_5$	8	1	-4	-2	0	1	0	0	0
→	$z_2$	7	0	-2	1	0	0	-1	0	1
		13	-1	0	1	-1	0	-1	0	0

1	$z_1$	6	-1	2	0	-1	0	0	1	0
0	$x_5$	22	1	-8	0	0	1	-2	0	2
0	$x_3$	7	0	-2	1	0	0	-1	0	1

[illegible]

			$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$z_1$	$z_2$
1	$z_1$	6	-1	2	0	-1	0	0	1	0
0	$x_5$	8	1	-4	-2	0	1	0	0	0
→ 1	$z_2$	7	0	-2	1	0	0	-1	0	1
		13	-1	0	1	-1	0	-1	0	0

1.2 ↗

1	$z_1$	6	-1	2	0	-1	0	0	1	0
0	$x_5$	22	1	-8	0	0	1	-2	0	2
0	$x_3$	7	0	-2	1	0	0	-1	0	1
		6	-1	2	0	-1	0	0	0	-1

↙ 4

0	$x_2$	3	$-\frac{1}{2}$	1	0	$-\frac{1}{2}$	0	0	$\frac{1}{2}$	0
0	$x_5$	46	-3	0	0	-4	1	-2	4	2
0	$x_3$	13	-1	0	1	-1	0	-1	4	1
		0	0	0	0	0	0	0	-1	-1

			6	-2	-8	0	0	0	
			$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	
-2	$x_2$	3	$-\frac{1}{2}$	1	0	$-\frac{1}{2}$	0	0	-
0	$x_5$	46	-3	0	0	-4	1	-2	-
-8	$x_3$	13	-1	0	1	-1	0	-1	-
-110			3	0	0	9	0	8	

→ úloha je neomezená

Kdybychom maximalizovali, byli bychom v optimálním bodě. Ověřte.