$Z(X) = 2x_1 - 8x_2 + 2x_3 + x_4 \to \max$

$-2x_1 + x_2 + 4x_3 + x_4 = \mid + a_1$

$-2x_2 + 2x_3 + x_4 = 6 \mid + a_2$

$x_j \geq 0 \quad j = 1,\dots,4$

$Z_1(X) = 2x_1 - 8x_2 + 2x_3 + x_4 - Ma_1 - Ma_2 \to \max$

$-2x_1 + x_2 + 4x_3 + x_4 + a_1 = 8$

$-2x_2 + x_3 + x_4 + a_2 = 6$

$x_j \geq 0 \quad j = 1,\dots,4;\ a_1, a_2 \geq 0$

		2	-8	2	1	-M	-M					
Б К	Б П	x_1	x_2	x_3	↓x_4	a_1	a_2	ОБР	Θ_3	Θ_4		
-M	a_1	-2	1	4	1	1	0	8	2	8	$\Delta Z_3 = -(-2 - 6M)\cdot 2 =$	**4 + 12M**
-M	←a_2	0	-2	2	1	0	1	6	3	6	$\Delta Z_4 = -(-1 - 2M)\cdot 6 =$	**6 + 12M**
	Δ_j	***-2***	***8***	***-2***	***-1***	***0***	***0***	0				
	$\Delta_{j\,M}$	***2M***	***M***	***- 6M***	***- 2M***	***0***	***0***	***- 14M***	Θ_2	Θ_3		
-M	←a_1	-2	3	2	0	1		2	0,667	1	$\Delta Z_2 = -(6 - 3M)\cdot 2/3 =$	**- 4 + 2M**
1	x_4	0	-2	2	1	0		6	-	3	$\Delta Z_3 = -(- 2M)\cdot 1 =$	**2M**
	Δ_j	***-2***	***6***	***0***	***0***	***0***		6				
	$\Delta_{j\,M}$	***2M***	***- 3M***	***- 2M***	***0***	***0***		***- 2M***	Θ_2			
2	x_3	-1	1,5	1	0			1	-			
1	x_4	2	-5	0	1			4	2		$\Delta Z_1 =$	**4**
	Δ_j	***-2***	***6***	***0***	***0***			***6***				
2	x_3	0	-1	1	0,5			3				
2	x_4	1	-2,5	0	0,5			2				
	Δ_j	***0***	*1*	***0***	*1*			***10***				

$X_1^* =$ (2; 0; 3; 0; 0; 0) **$X^* =$ (2; 0; 3; 0)** **$Z^* = Z_1^* =$ 10**