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

$$\begin{array}{l|l} -2x_1 + x_2 + 4x_3 + x_4 = 8 & \\ -2x_2 + 2x_3 + x_4 = 6 & \text{I - II} \\ x_j \geq 0 \quad j = 1,\ldots,4 & \end{array}$$

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

$$\begin{array}{l|l} -2x_1 + 3x_2 + 2x_3 = 2 & \mathbf{+ a} \\ -2x_2 + 2x_3 + x_4 = 6 & \\ x_j \geq 0 \quad j=1,\ldots,4 & \end{array}$$

$Z_1(X) = 2x_1 - 8x_2 + 2x_3 + x_4 - Ma \rightarrow \max$

$-2x_1 + 3x_2 + 2x_3 + a = 2$

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

$x_j \geq 0 \quad j= 1,\ldots,4;\ a \geq 0$

		2	-8	2	1	-M					
Б К	Б П	x_1	x_2	↓x_3	x_4	a	ОБР	Θ_2	Θ_3		
-M	←a	-2	3	2	0	1	2	2/3	1	ΔZ_2=-(6-3M)·2/3 =	**-4+2M**
1	x_4	0	-2	2	1	0	6	-	3	ΔZ_3=-(-2M)·1 =	2M
	Δ_j	***-2***	***6***	***0***	***0***	***0***	***6***				
	$\Delta_{j\,M}$	***2M***	***-3M***	***-2M***	***0***	***0***	***-2M***	Θ_1			
2	x_3	-1	1,5	1	0		1	-			
1	←x_4	2	-5	0	1		4	2		ΔZ_1=-(-2)·2 =	4
	Δ_j	***-2***	***6***	***0***	***0***		6	*= 6-2M+2M*			
2	x_3	0	-1	1	0,5		3				
1	x_1	1	-2,5	0	0,5		2				
	Δ_j	**0**	**1**	**0**	**1**		10	*= 6 + 4*			

$\mathbf{X_1^*}$ = **(2; 0; 3; 0; 0)**

$\mathbf{X^*}$ = **(2; 0; 3; 0)** $\quad \mathbf{Z^* = Z_1^*}$ = **10**