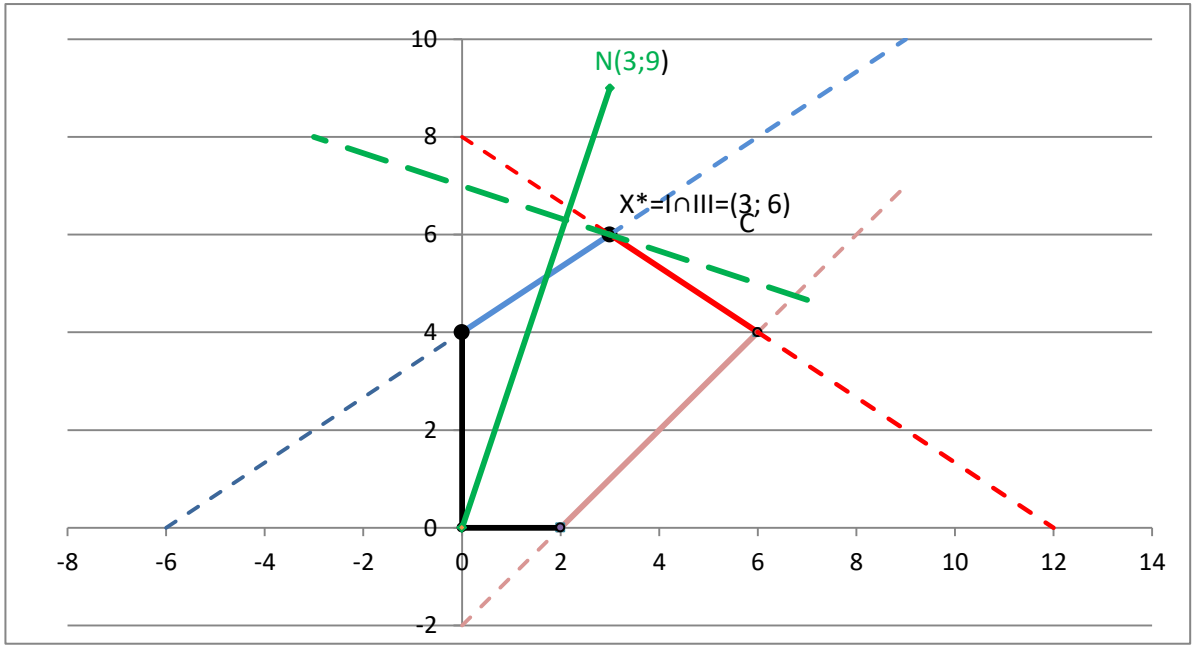
$$Z = 3x + 9y \rightarrow \max$$

$$\begin{aligned} -2x + 3y &\le 12 \quad | + s_1 \\ x - y &\le 2 \quad | + s_2 \\ 2x + 3y &\le 24 \quad | + s_3 \\ x, y &\ge 0 \end{aligned}$$

$$Z = 3x + 9y + 0\cdot s_1 + 0\cdot s_2 + 0\cdot s_3 \rightarrow \max$$

$$\left|\begin{array}{lll} -2x + 3y + s_1 & & 12 \\ x - y + s_2 & & 2 \\ 2x + 3y + s_3 & & 24 \end{array}\right.$$

$$x, y, s_1, s_2, s_3 \ge 0$$



k =

		3	9	0	0	0						
b.c.	b.v.	x	y↓	s_1	s_2	s_3	BFS	Θ_x	Θ_y			
0	←s_1	-2	3	1	0	0	12	-	4	ΔZ_x=-(-3)·2 =	6	***BFS $_1$ (0; 0; 12; 2; 24)***
0	s_2	1	-1	0	1	0	2	2	-	ΔZ_y=-(-9)·4 =	36	
0	s_3	2	3	0	0	1	24	12	8			
	Δ_j	***-3***	***-9***	***0***	***0***	***0***	0	Θ_x				
9	y	- 2/3	1	1/3	0	0	4	-				
0	s_2	1/3	0	1/3	1	0	6	18				
0	←s_3	4	0	-1	0	1	12	3		ΔZ_y=-(-9)·3 =	27	***BFS $_2$ (0; 4; 0; 6; 12)***
	Δ_j	***-9***	***0***	***3***	***0***	***0***	36	*0+36 = 36*				
9	**y**	0	1	1/6	0	1/6	6					
0	s_2	0	0	5/12	1	- 1/12	5					***BFS $_3$ (3; 6; 0; 5; 0)***
3	**x**	1	0	-0,25	0	0,25	3					
	Δ_j	***0***	***0***	***0,75***	***0***	***2,25***	63	*36+27 = 63*				

X* = **(3; 6)** **Z* =** **63**