

$$Z(X) = 3x + 4y + z \rightarrow \max$$

$$x + 2y + z \leq 10 \quad + s_1$$

$$2x + y + 2z \leq 8 \quad + s_2$$

$$x, y, z \geq 0$$

$$Z_1(X) = 3x + 4y + z + 0 \cdot s_1 + 0 \cdot s_2 \rightarrow \max$$

$$x + 2y + z + s_1 = 10$$

$$2x + y + 2z + s_2 = 4$$

$$x, y, z, s_1, s_2 \geq 0$$

		3	4	1	0	0							
b.c.	b.v.	x	y↓	z	s ₁	s ₂	BFS	Θ _{1x}	Θ _{1y}	Θ _{1z}			
0	←s ₁	1	2	1	1	0	10	10	5	10	ΔZ _{1x} = (-3)·4 =	12	BFS ₁ (0; 0; 0; 10; 8)
0	s ₂	2	1	2	0	1	8	4	8	4	ΔZ _{1y} = (-3)·5 =	20	
	Δ _j	-3	-4	-1	0	0	0	Θ _{1x}			ΔZ _{1z} = (-1)·4 =	4	
4	y	0,5	1	0,5	0,5	0	5	10					
0	s ₂	1,5	0	1,5	-0,5	1	3	2			ΔZ _{1x} = (-1)·2 =	2	BFS ₂ (0; 5; 0; 3; 0)
	Δ _j	-1	0	1	2	0	20						
4	y	0	1	0	2/3	-1/3	4						
3	x	1	0	1	-1/3	2/3	2						
	Δ _j	0	0	2	1 2/3	2/3	22						

BFS₃(2; 4; 0; 0; 0)

$$x_1^* = (2; 4; 0; 0; 0)$$

$$x^* = (2; 4; 0)$$

$$z^* = z_1^* = 22$$