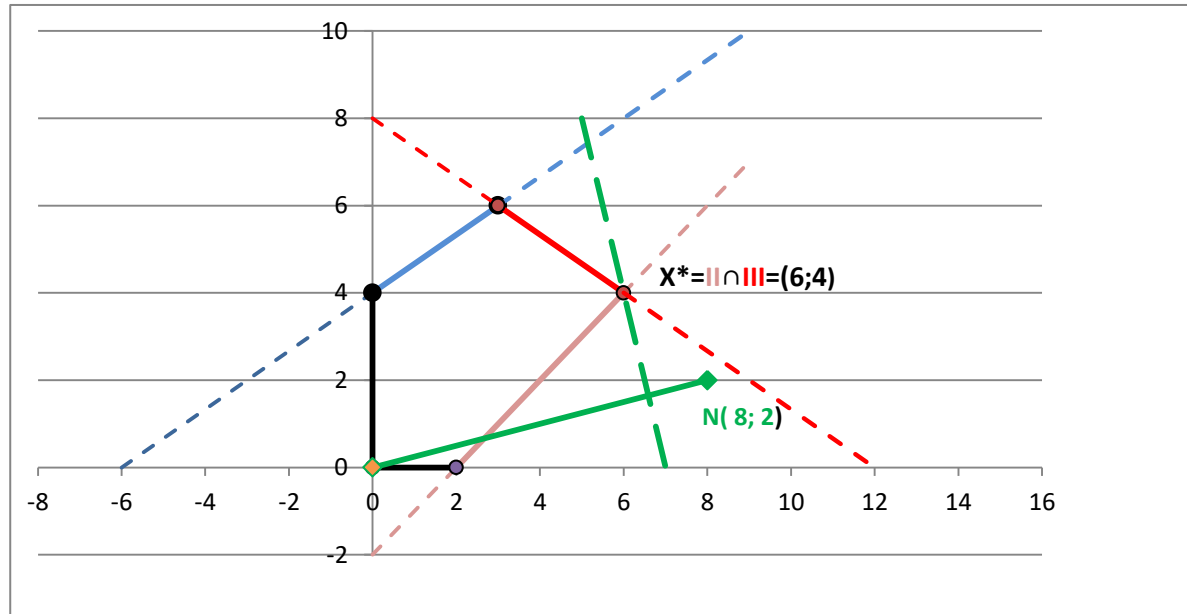


$$\begin{aligned}
 &Z = 8x + 2y \rightarrow \max \\
 &-2x + 3y \leq 12 \quad + s_1 \\
 &x - y \leq 2 \quad + s_2 \\
 &2x + 3y \leq 24 \quad + s_3 \\
 &x, y \geq 0
 \end{aligned}$$

$$\begin{aligned}
 &Z = 8x + 2y + 0 \cdot s_1 + 0 \cdot s_2 + 0 \cdot s_3 \rightarrow \max \\
 &-2x + 3y + s_1 = 12 \\
 &x - y + s_2 = 2 \\
 &2x + 3y + s_3 = 24 \\
 &x, y, s_1, s_2, s_3 \geq 0
 \end{aligned}$$



| b.c. | b.v. | 8 | 2 | 0 | 0 | 0 | | | |
|------|-----------------|----|----------------|----------------|----------------|-----|----------------|----------------|-------------------------------|
| | x↓ | y | s ₁ | s ₂ | s ₃ | BFS | Θ _x | Θ _y | |
| 0 | s ₁ | -2 | 3 | 1 | 0 | 12 | - | 4 | ΔZ _x = (-8)·2 = 16 |
| 0 | ←s ₂ | 1 | -1 | 0 | 1 | 2 | 2 | - | ΔZ _y = (-2)·4 = 8 |
| 0 | s ₃ | 2 | 3 | 0 | 0 | 24 | 12 | 8 | |
| | Δ _j | -8 | -2 | 0 | 0 | 0 | Θ _y | | |
| 0 | s ₁ | 0 | 1 | 1 | 2 | 16 | 16 | | |
| 8 | x | 1 | -1 | 0 | 1 | 2 | - | | |
| 0 | ←s ₃ | 0 | 5 | 0 | -2 | 20 | 4 | | |
| | Δ _j | 0 | -10 | 0 | 8 | 16 | 0+16=16 | | |
| 0 | s ₁ | 0 | 0 | 1 | 2,4 | 12 | | | |
| 8 | x | 1 | 0 | 0 | 0,6 | 6 | | | |
| 2 | y | 0 | 1 | 0 | -0,4 | 4 | | | |
| | Δ _j | 0 | 0 | 0 | 4 | 56 | 16+40=56 | | |

$$\Delta Z_y = (-10) \cdot 4 = 40 \quad \text{BFS}_2 (2; 0; 16; 0; 20)$$

$$\text{BFS}_3 (6; 4; 12; 0; 0)$$

$$X^* = (6; 4)$$

$$Z^* = 56$$