

$$\min_x -3x_1 - 5x_2$$

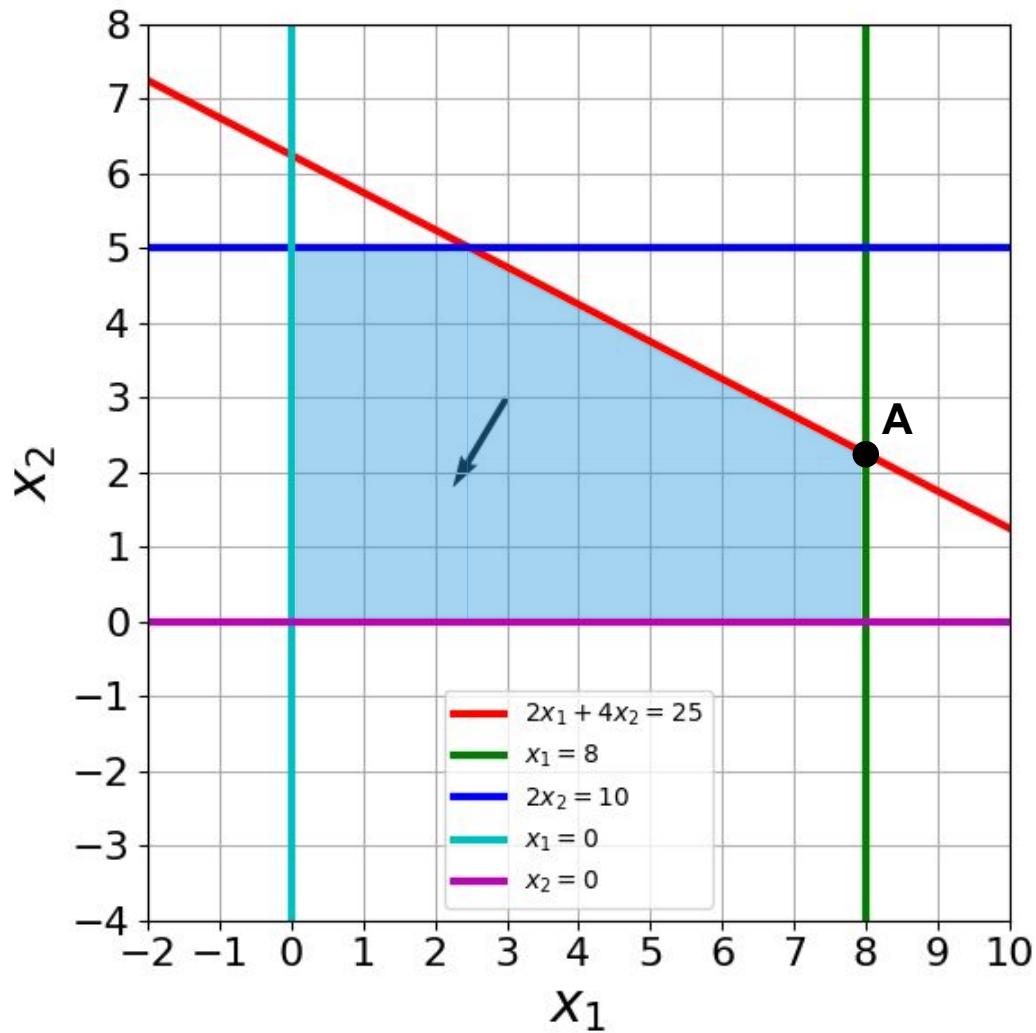
$$\text{s.t. } 2x_1 + 4x_2 \leq 25$$

$$x_1 \leq 8$$

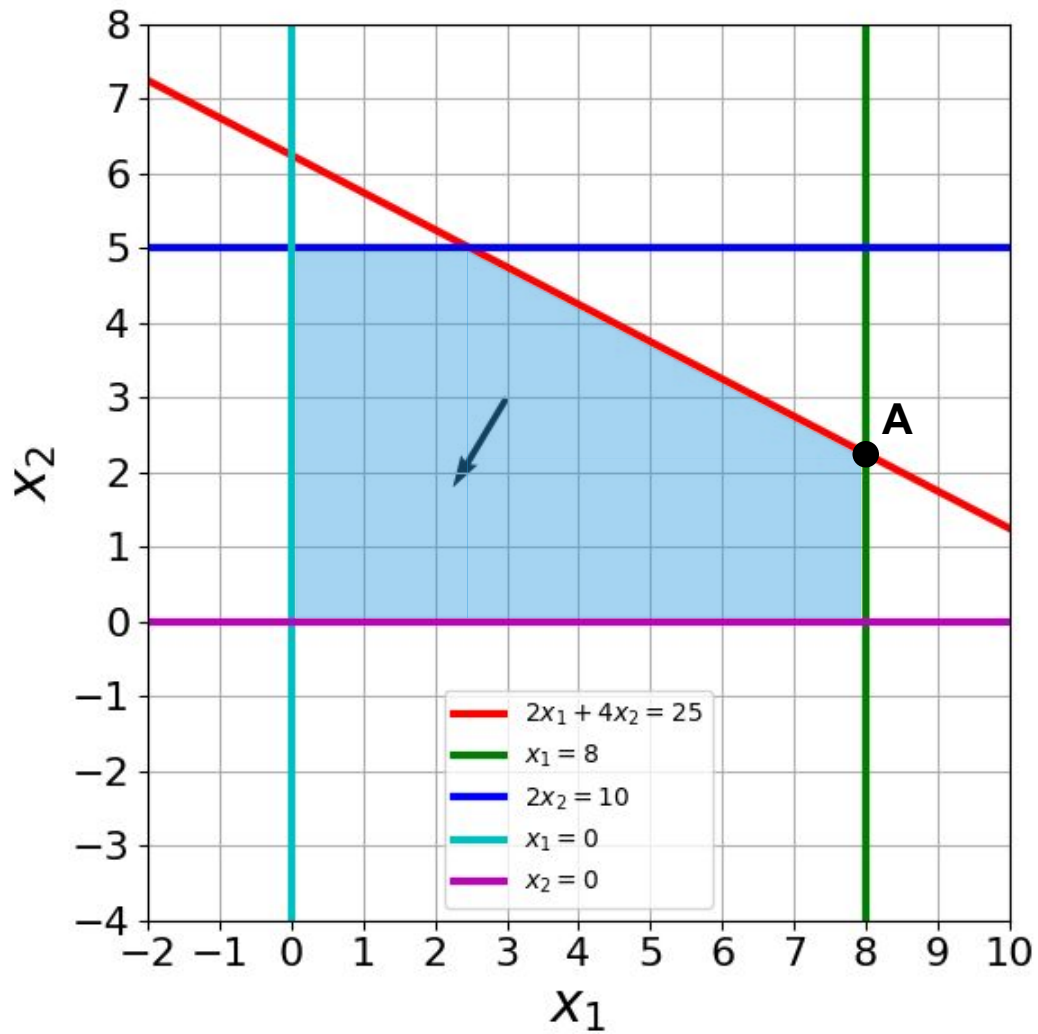
$$2x_2 \leq 10$$


$$x_1, x_2 \geq 0$$

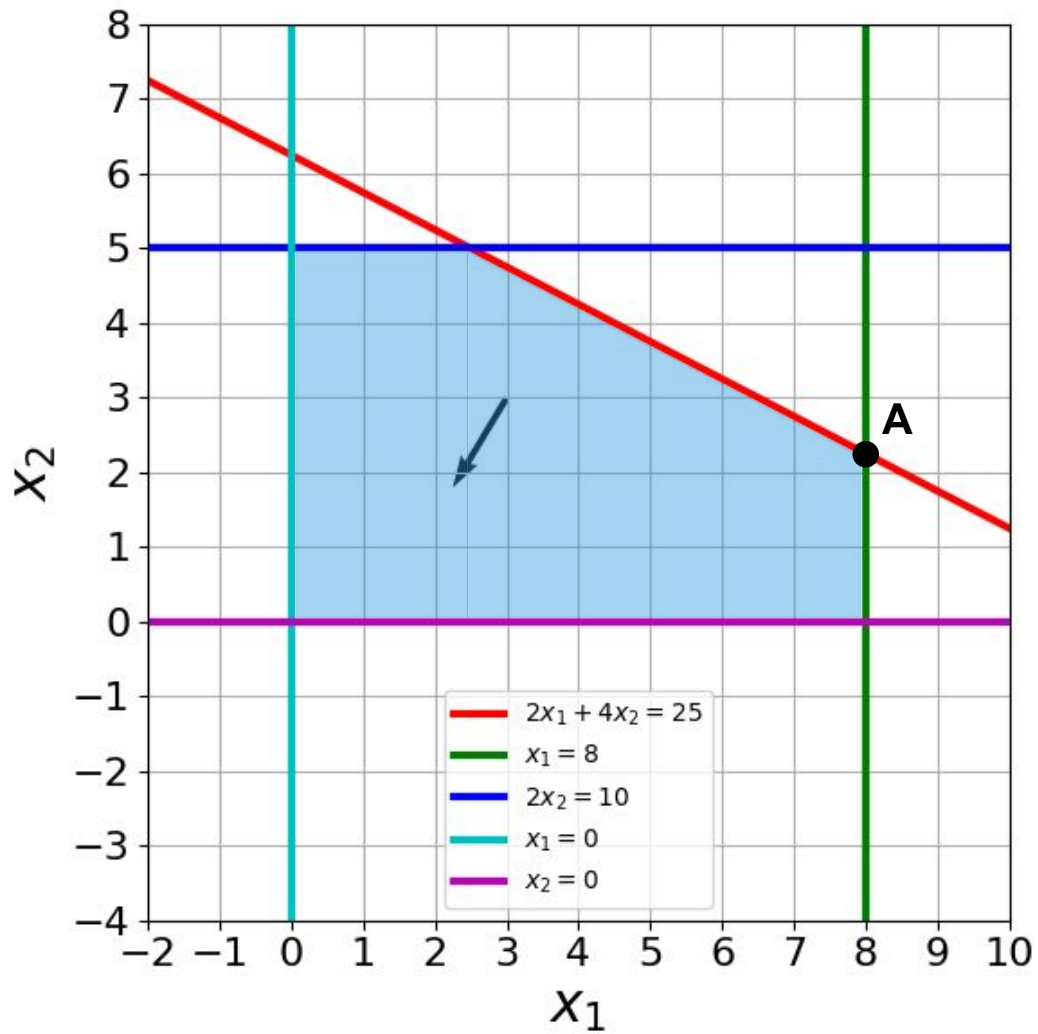
$$x_1, x_2 \in \mathbb{Z}$$



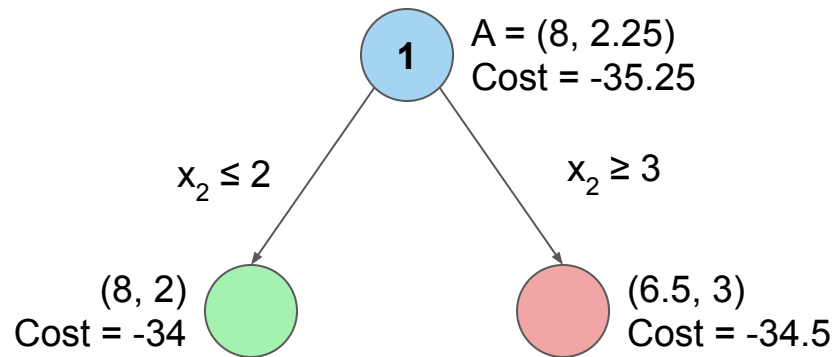
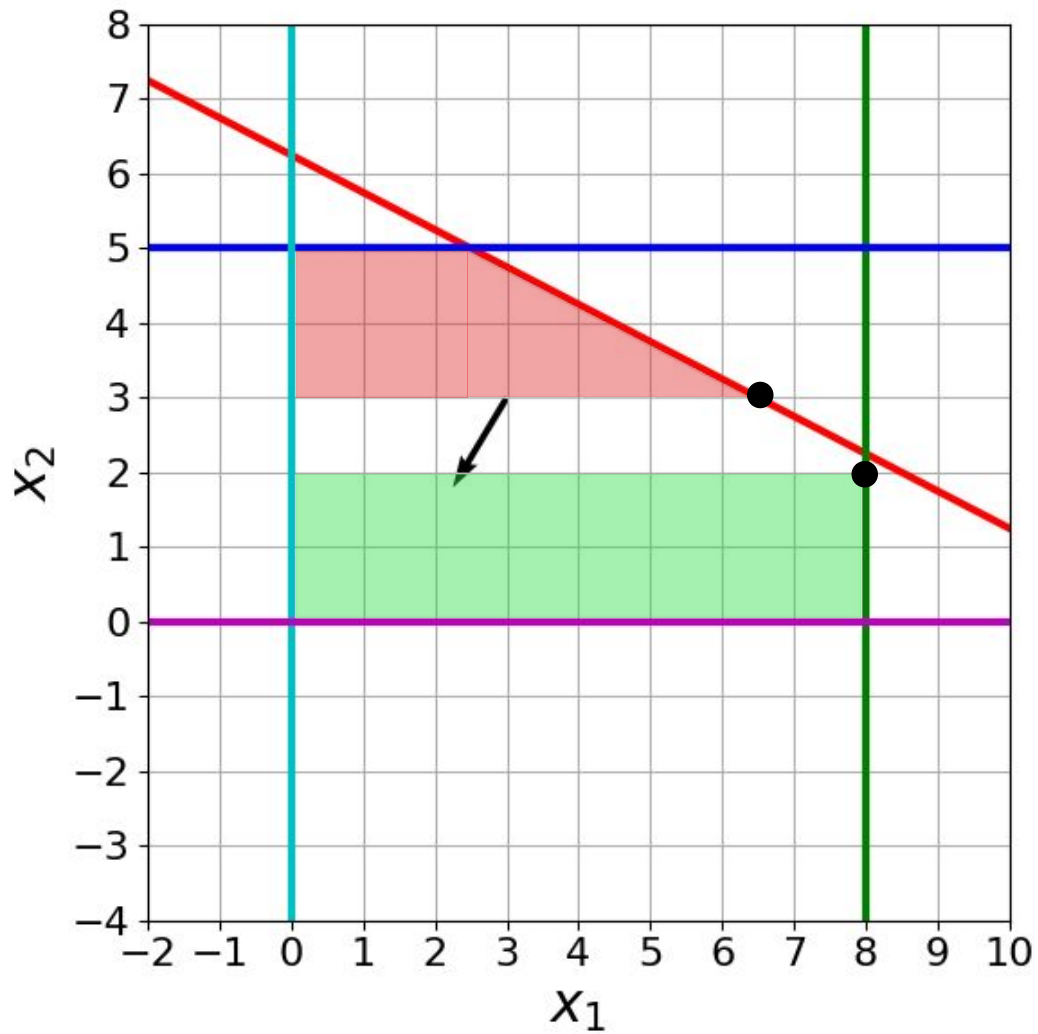
$$\begin{aligned} & \min_x -3x_1 - 5x_2 \\ & \text{s.t. } 2x_1 + 4x_2 \leq 25 \\ & \quad x_1 \leq 8 \\ & \quad 2x_2 \leq 10 \\ & \quad x_1, x_2 \geq 0 \\ & \quad \cancel{x_1, x_2 \in \mathbb{Z}} \end{aligned}$$

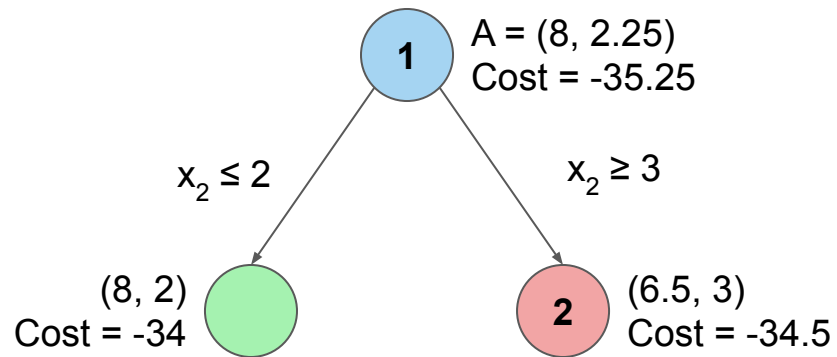
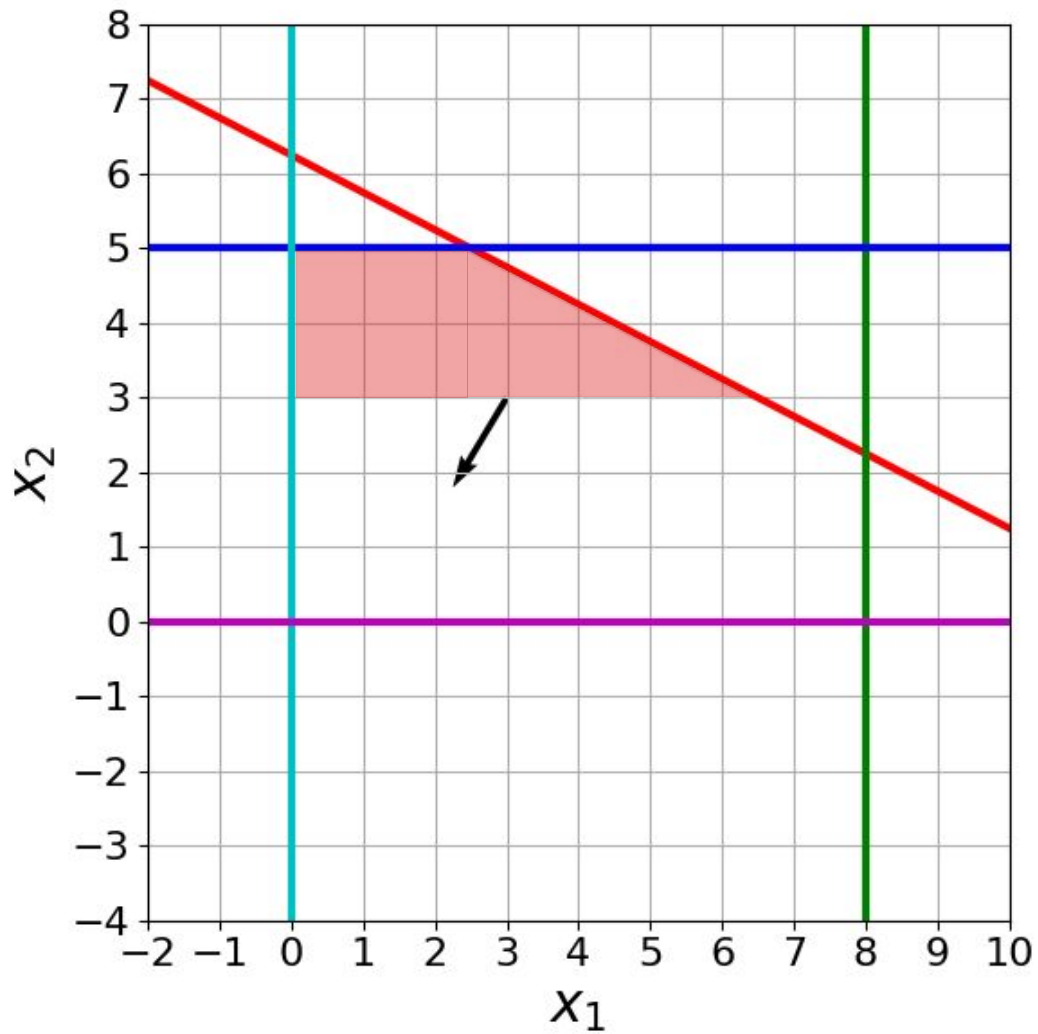


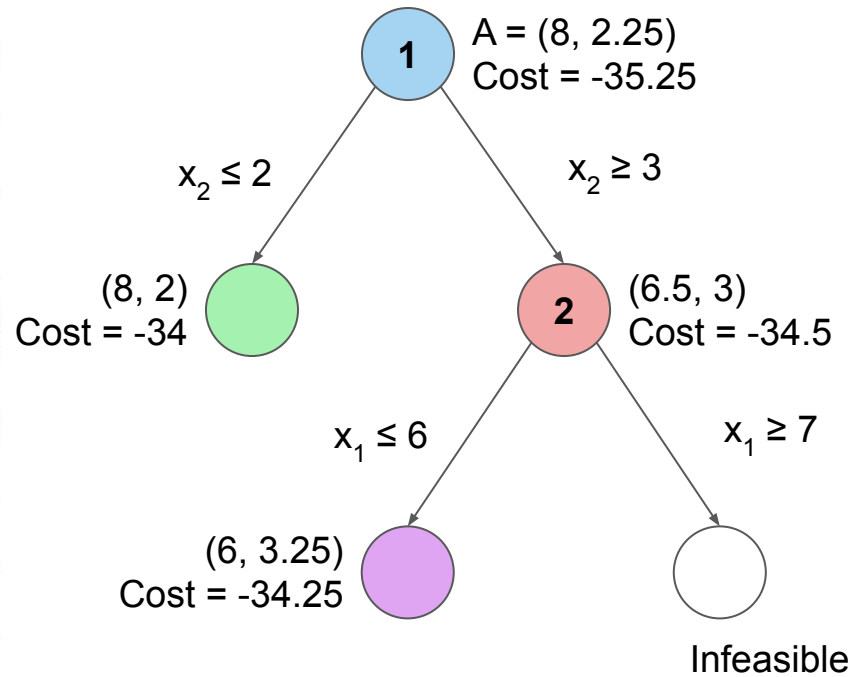
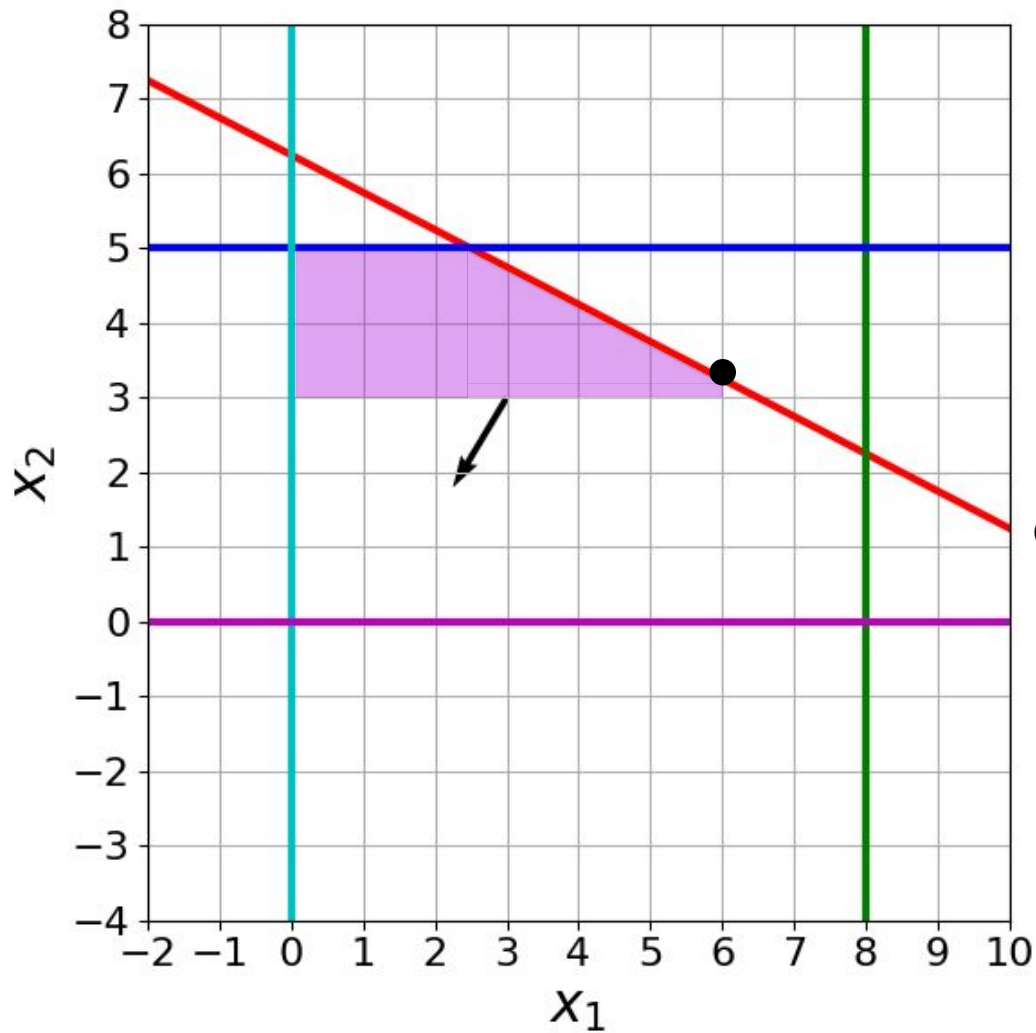
 $A = (8, 2.25)$
Cost = -35.25

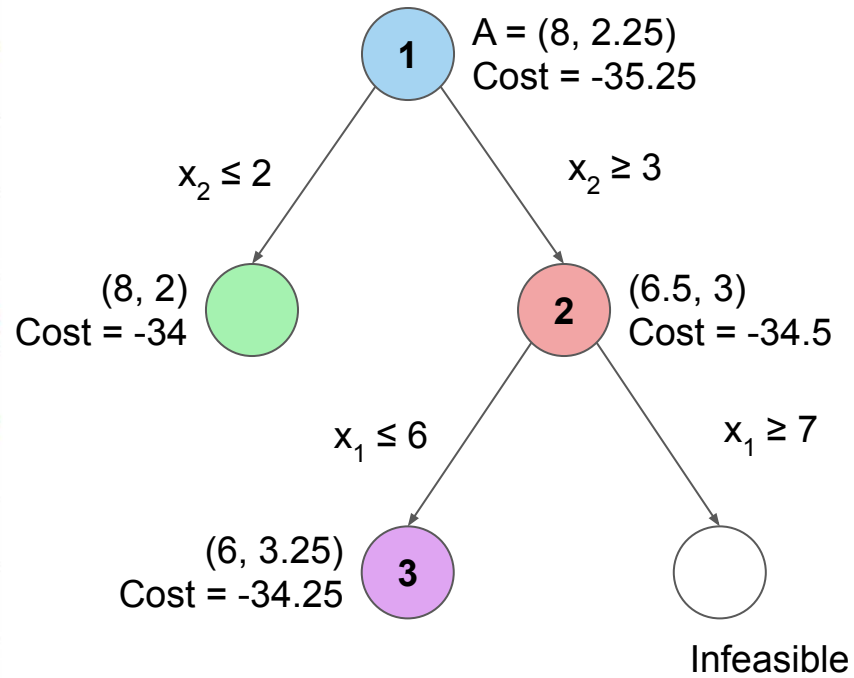
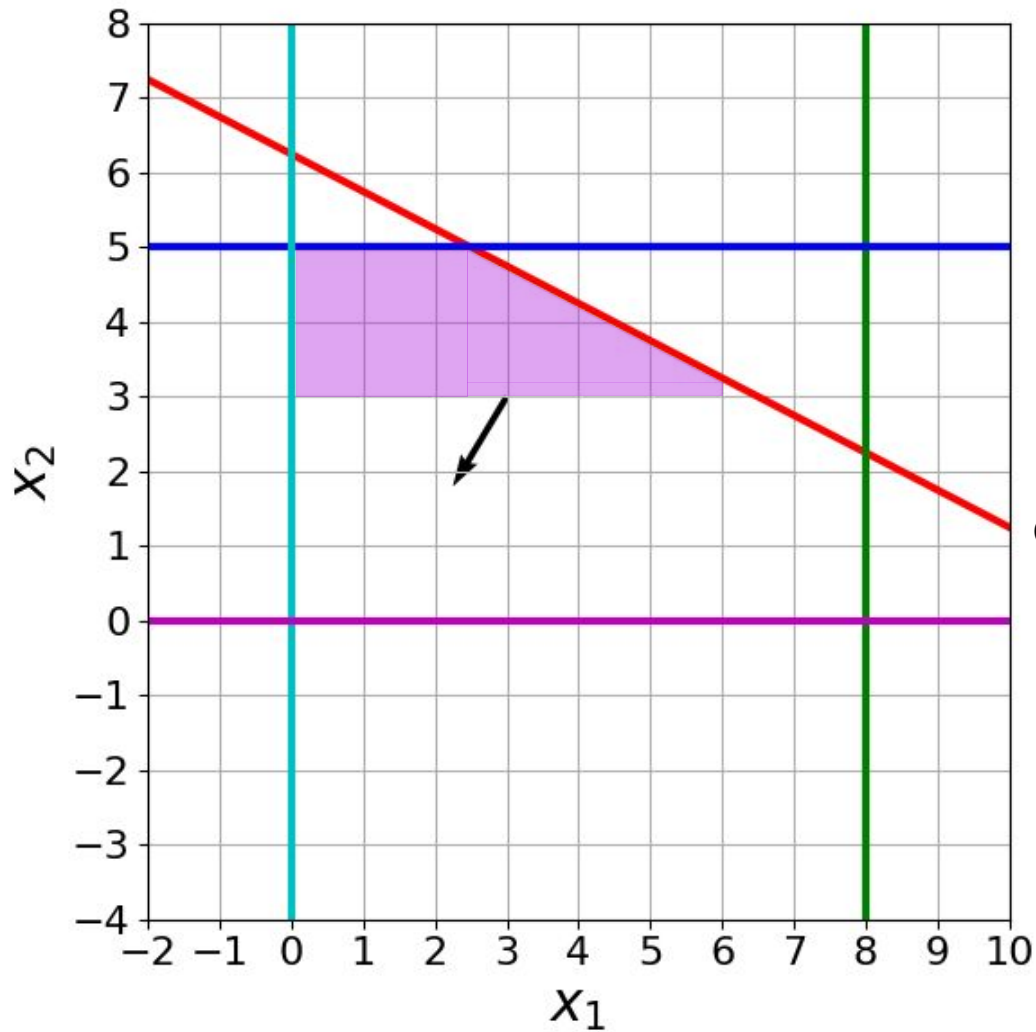


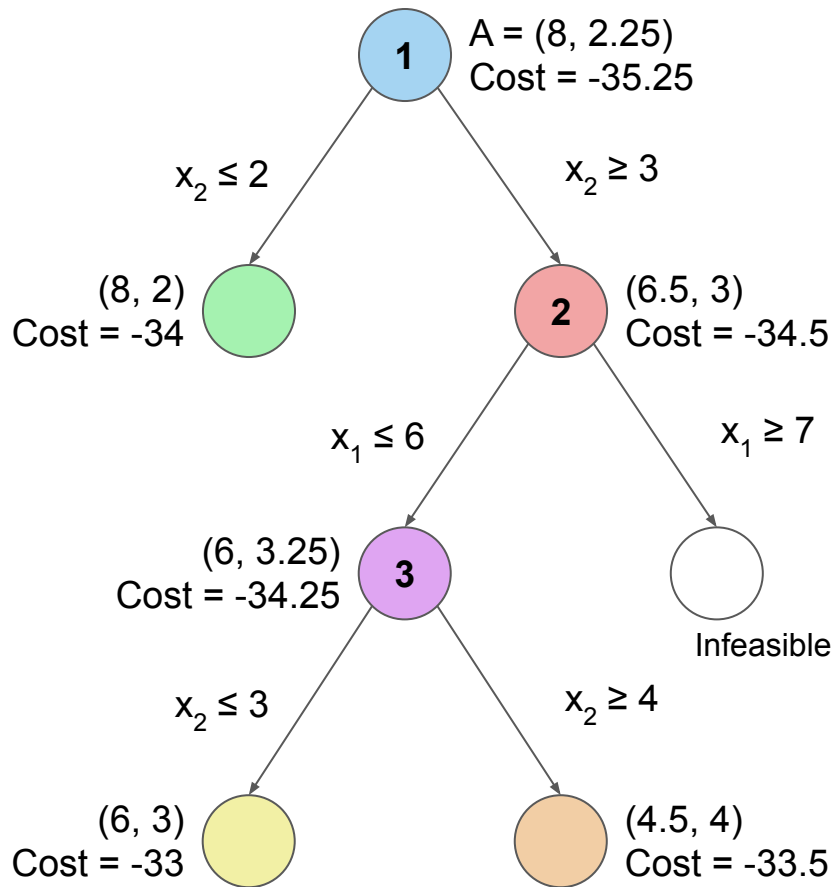
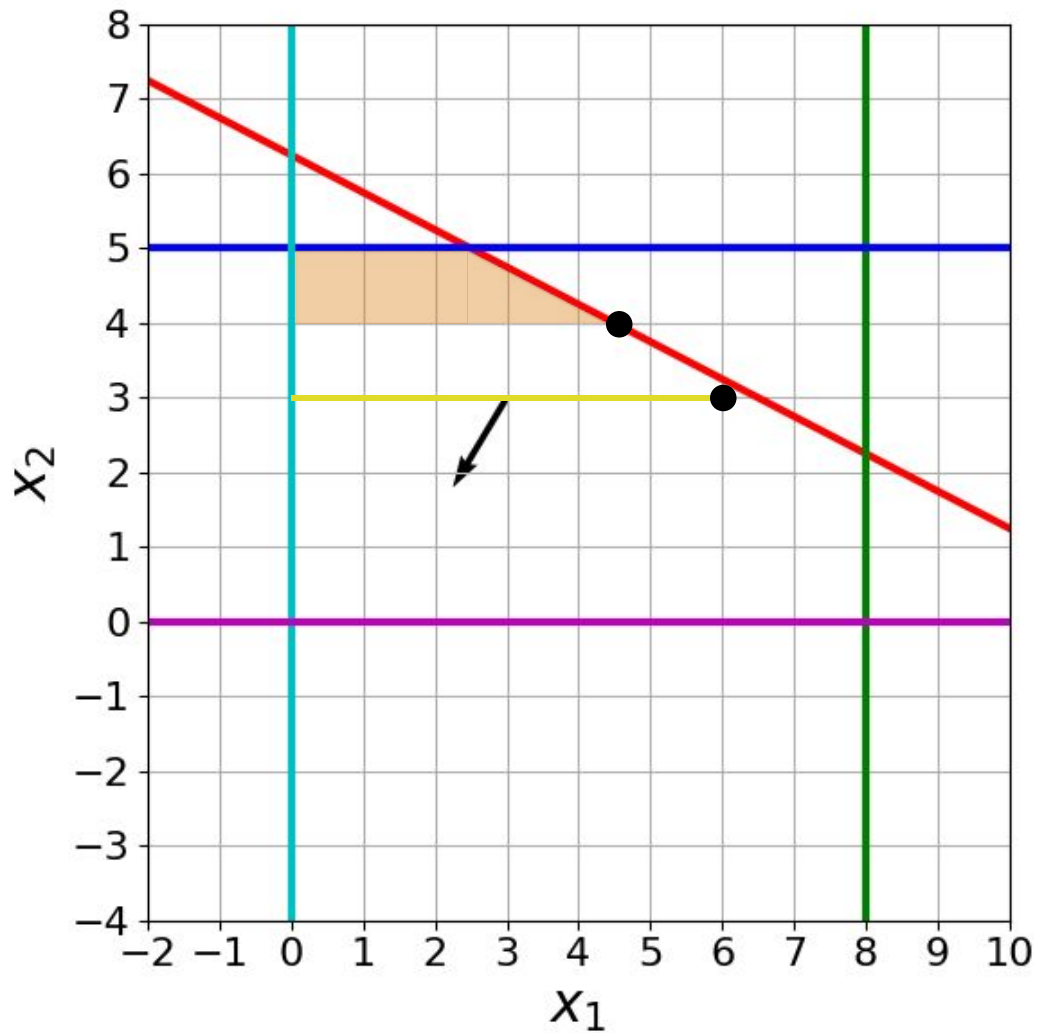
1 $A = (8, 2.25)$
Cost = -35.25

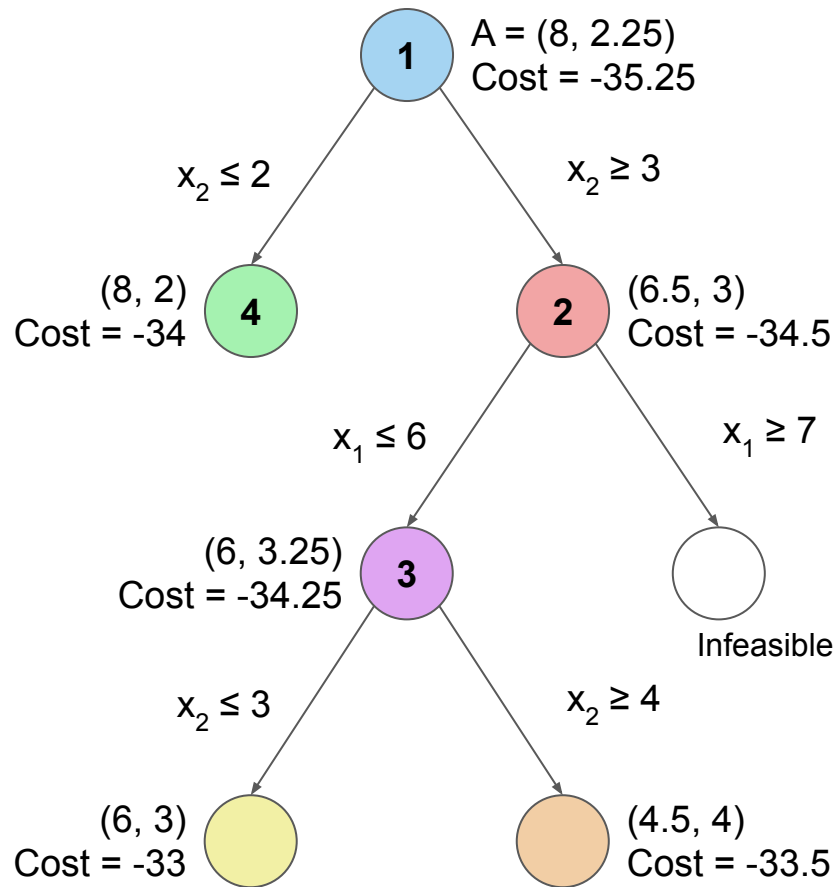
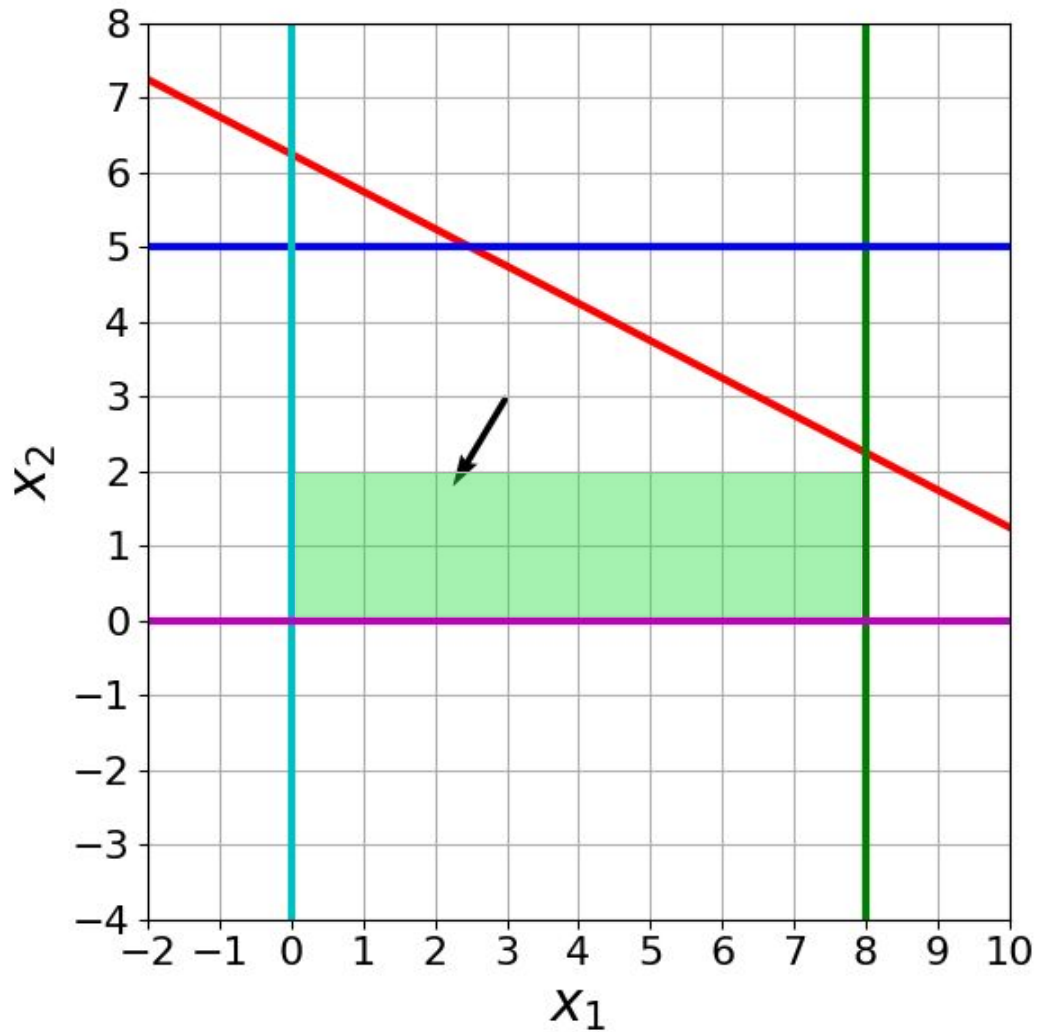


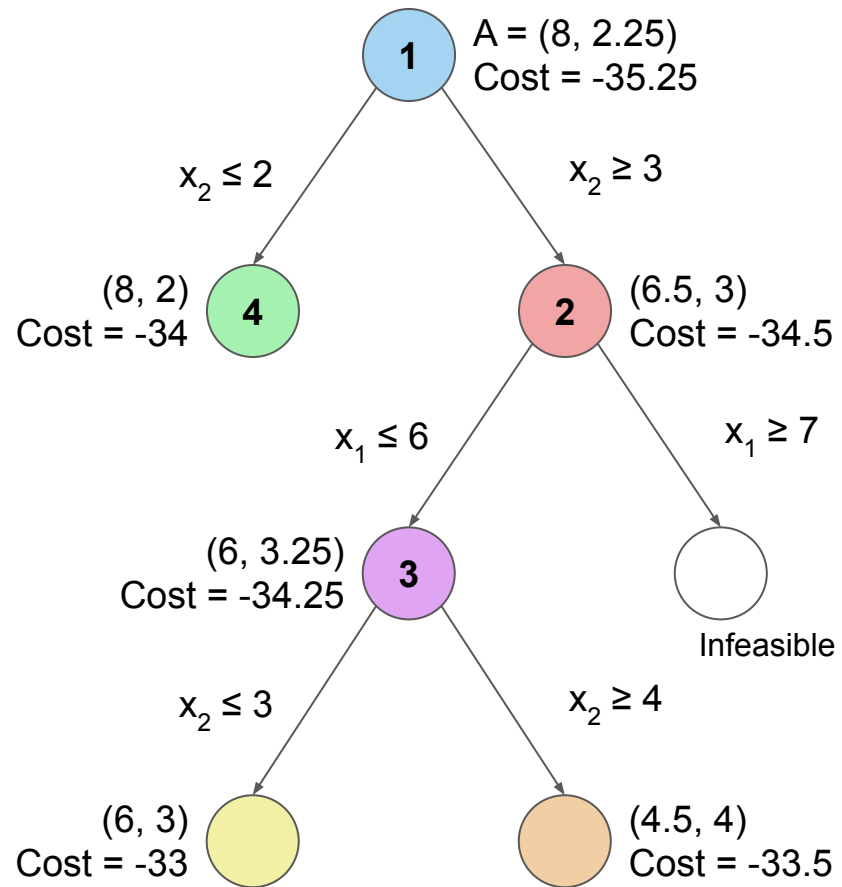
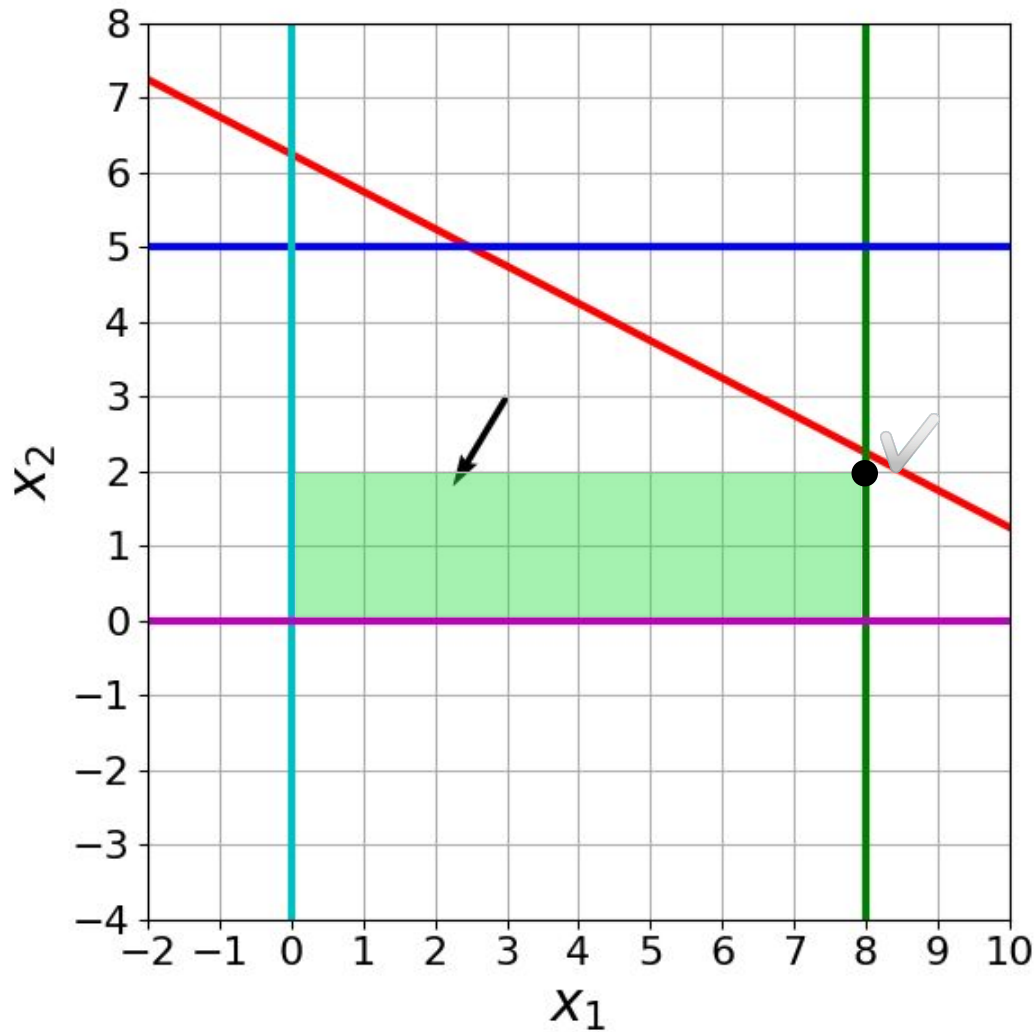


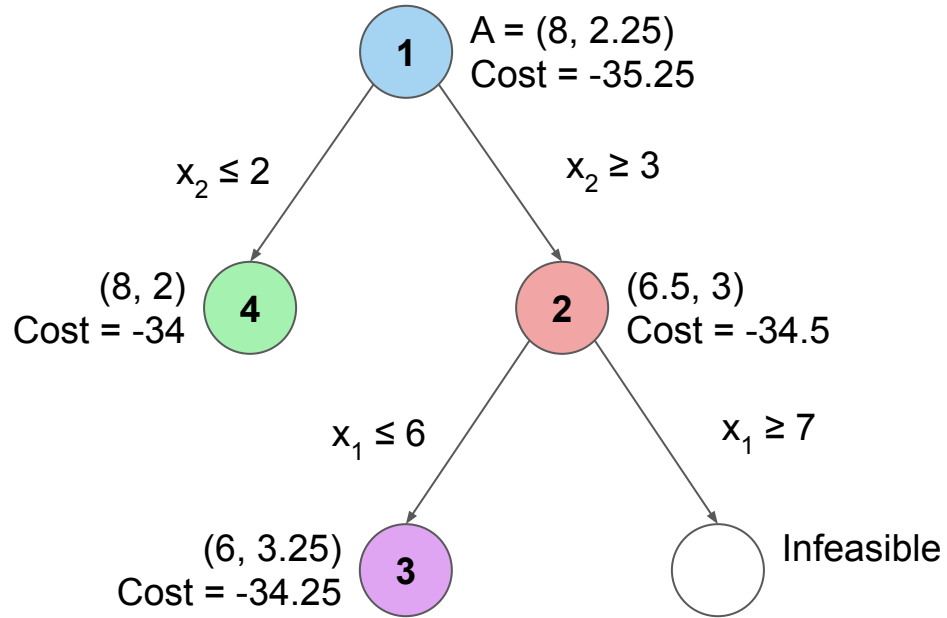












Return: (8, 2), cost = -34