

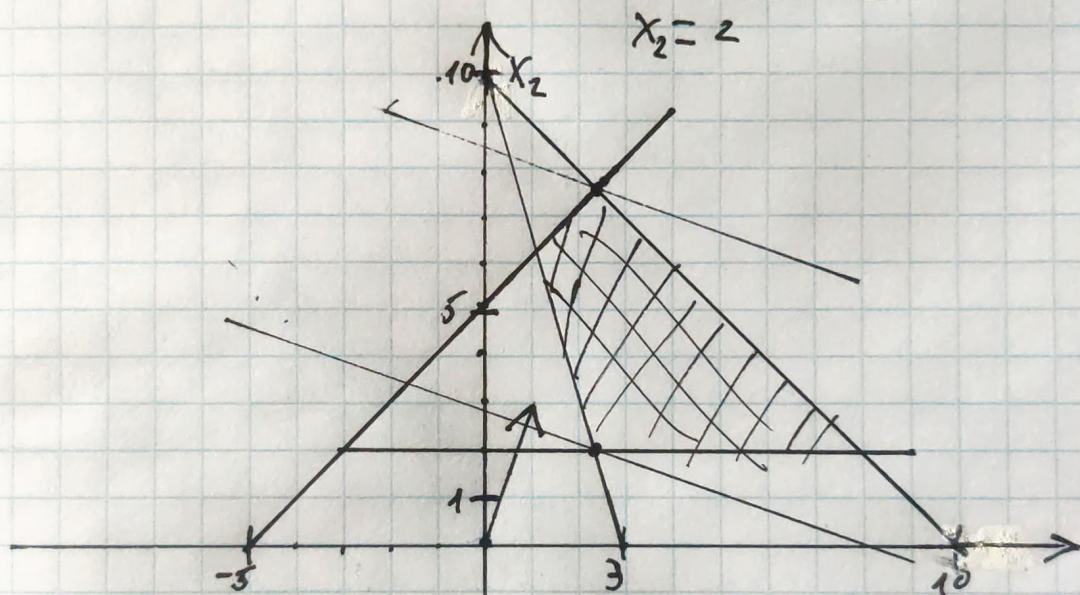
Индивидуальное задание 1.

б.б

$$X_1 + 3X_2 \rightarrow \min (\max)$$

$$\begin{cases} 10X_1 + 3X_2 \geq 30 \\ -X_1 + X_2 \leq 5 \\ X_1 + X_2 \leq 10 \\ X_2 \geq 2 \end{cases}$$

X_1	0	3
X_2	10	0
X_1	0	5
X_2	5	0
X_1	0	10
X_2	10	0



$$\bar{C} = (1; 3)$$

$$X_{\min}^*: \begin{cases} 10X_1 + 3X_2 = 30 \\ X_2 = 2 \end{cases}$$

$$X_{\max}^*: \begin{cases} -X_1 + X_2 = 5 \\ X_1 + X_2 = 10 \end{cases}$$

$$\begin{cases} X_2 = 4.5 \\ X_1 = 2.5 \end{cases}$$

$$\begin{cases} 10X_1 = 24 \\ X_2 = 2 \end{cases} \Rightarrow \begin{cases} X_1 = 2.4 \\ X_2 = 2 \end{cases}$$

$$L_{\max}^* = 2.5 + 3 \cdot 4.5 = 20$$

$$L_{\min}^* (2.4; 2) = 8.4$$