CAFOUREK min 2kg - 3kg + Kg $x_1 - x_2 - x_3 \geq 0$ $-x_1 + 2x_2 - 3x_3 \leq 5$ $2x_1 - x_2 - x_3 + 2x_4 = 6$ ×2×2,×3×4≥0 poder. Gomplenentaristy max Oy, +.5 y2 + 6 y3 $\chi_{n}(x_{n}-x_{2}-x_{3})=0$ $y_2(-x_1+2x_2-3x_3)=0$ $x_1(y_1-y_2+2y_3-2)=0$ yn - 1/2 + 2 y3 ≤ 2 $(-y_1+2y_2-y_3)=0$ $-y_1 + 2y_2 - y_3 \leq 0$ ×3 (-1/2-3/2-1/3 +3)=0 K4(2×3-1)=0 $-y_1 - 3y_2 - y_3 \le -3$ &) min max | ai-x | (thed intervalu) Gna ildu LP: min { y | y ≥ ai-X, y ≥ x-ai } yER, XER min 1y + 0x $y + x \ge a_1 \land y - x \ge -a_1$ which $\begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix} \begin{bmatrix} x \\ x \end{bmatrix} \ge \begin{bmatrix} a_1 \\ a_m \\ -a_n \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 2n \end{bmatrix} \begin{bmatrix} x \\ x \end{bmatrix} = \begin{bmatrix} a_1 \\ a_m \end{bmatrix}$ $\begin{bmatrix} 1 & 1 \\ 2n \end{bmatrix} \begin{bmatrix} x \\ x \end{bmatrix} = \begin{bmatrix} a_1 \\ a_m \end{bmatrix}$ jodn komplematarity: (y=ai-x nelo wi=0) a (y=x-ai nelo vi=0)

15.2.
$$c_{3}$$
. $c_{n} \in \mathbb{R}$ $\max \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} CAFOUREK$

a) It \overline{g} $c_{i} < 0$, Ash cheere $x_{i} = -1$ } furgic \overline{g} $\overline{g$