(AFOULEK b) c= (0,1,0) a) C = (-1,0,1)min XZ min -x, + x3 on bod (3,0) amen missine . (20) (3,0) c) c=(0,0,-1) min -X3 ade ge men x1, x2 julio, ale s vistim x3 a lude minimum alexiosis je to bedy neonesens. 12.2 a) min 2x, -3x3 + x4 $X_1 - X_2 - X_3 \qquad \geq 0$ t management and $-x_1 + 2x_2 - 3x_3 \leq 5$ and the second $2x_1 - x_2 - x_3 + 2x_4 = 6$ $\chi_{i} \geq 0$ i=1,2,3,4min & r.m | Pm = 9, m = 03 min $2x_1 - 3x_3 + x_4$ $x_1 - x_2 - x_3 = y = 0$ $x_1 - x_2 - x_3 = y = 0$ $x_1 - x_2 - x_3 = y = 0$ $x_1 - x_2 - x_3 = y = 0$ $x_1 - x_2 - x_3 = y = 0$ $M = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix} P = \begin{bmatrix} 1 - 1 - 10 - 10 \\ 12 - 3001 \\ 2 - 1 - 3200 \end{bmatrix}$ $-x_1+2x_2-3x_3+w=5$ $2x_1 - x_2 - x_3 + 2x_4 = 6$ Xi/Y, = 20 i=1,2,3,4 B) min {<C, X>) X ∈ R⁻¹, X1=a, X^T1=B, X≥0} $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{z_m}, c_{m_q} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{m_q})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $C = \sum_{n} \overline{x} = (c_{q_1} ... c_{q_m}, c_{z_1} ... c_{q_m})$ $\begin{bmatrix} cij \end{bmatrix} \qquad \begin{array}{c} X = > \mathcal{M} = \begin{pmatrix} x_{q_1} \\ x_{q_2} \\ x_{q_3} \\ x_{q_4} \\ x_{q_4} \\ x_{q_5} \\ x_{q$

12.3. a) $C \in \mathbb{R}^{m}$, $2 \in \{1,...,m\}$ CAFOCREX

max $\{c^{T}x \mid x \in \mathbb{R}^{n}, 0 \leq x \leq 1\}$ Smare $\{\sum_{i=1}^{n} x_{i} \mid x_{i} \in \mathbb{R}, 0 \leq x_{i} \leq 1, \forall x_{i} \mid x_{i}$

S. Sanderd Rance S = 7EUR

L. lwers hance l = 10EUR

max 75+10 l maximalisace kidher

12 p. 4,55+5l \le 60-30 \rightary hullisher dilna:

25+1l \le 20-30 \rightary dilna glashy =

25+4l = 40.30 => kompletariha. olilna. 5,l = 0, 5, l = Z

Γ,

 $|s_{j}| \ge 0$, $|s_{j}| \le 2$
