4.
$$3a \ 3a8a4ama \ na \ 10$$

$$| max \ 2_{L}(x) = x1$$

$$-x_1 + 2x_2 = 0$$

$$-x_1 + x_2 = 1$$

$$x_1 + x_2 = 1$$

$$x_1 + x_2 = 0$$

a) hammenne coombemnama kanonweng zagaca (K);
δ) καμερείμε μιστιεσωβοίμο στι σηπημαλική γεшения
α σηνιμα. α-τ να γειεβαίμα φ με μα zagazerte (K)
α σηνιμα. α-τ να γειεβαίμα φ με μα zagazerte (K)
α (L) καινο υς μοκιβατε τα διμικά φορμα μα CH.

Pewerue: a)
$$\begin{array}{lll}
\text{min } & \exists z \ (x) = -x \\
x_1 - 2x_2 + x_3 & = 0 \\
x_1 + x_2 & +x_4 & = 1 \\
x_1 + x_2 & -x_5 = 1 \\
x_1 + x_2 & -x_5 = 1
\end{array}$$

$$\begin{array}{lll}
x_1 - 2x_2 + x_3 & = 0 \\
x_1 + x_2 & -x_5 = 1 \\
x_1 + x_2 & -x_5 = 1
\end{array}$$

S) (K) una zacruzen sague x3, x4. Dosabene nyeyerbena uponemuka x6 n munen H-3agacasa

(M)
$$X_{1} \times X_{2} \times X_{3} = 0$$

 $X_{1} - 2 \times X_{2} + X_{3} = 0$
 $X_{1} + X_{2} + X_{4} = 1$
 $X_{1} + X_{2} - X_{5} + X_{6} = 1$
 $X_{1} \times X_{2} \times X_{3} = 0, X_{4} \times 0, X_{5} \times 0, X_{6} = 0$
ROSINO e 6 Suzuceti lung cupano hazaren

Eague {x3, x4, x6 3.

			ĵ	11						8
	Xg	Co	×ı	×z	× ₃	Χų	XS	×6	6	160 CT
	٦	δ	-1	O	0	0	0	И		(0 14=0
(-	X ₃	0	1	-2	1	0	0	0	0	min $\{0, \frac{1}{1}\} = 0$
	XY	0	-1	1	0	1	0	0	1	X ₁ 6 M 3 ^{-c}
	X ₆	M	1	1	0	0	-1	1	1	X3 NBM3A
	-	2	-M-1	- M	0	0	M	0	- M	- 00 05
,	×1	-1	1	-2	1	0	0	0	0	2 Pa CT 1 4 = 1
	XY	0	0	-1	1	1	0	0	1	min $\frac{1}{3}$ = $\frac{1}{3}$ \times_2 bru3a, \times_6 $\frac{1}{3}$ $\frac{1}{3}$
6	X6	M	0	(3)	-1	0	-1	1	1	×2 6 m 3a, 1/6 m
	1	5	0	-34-	2 H+1	0	M	6	- M	
	TXA	1-1	1	0	1/3	0	-2/3	2/3	2/3	зта СТ
	XY	0	0	0	2/3		-1/3	1	4/3	cxs == 3 × 0 m
	X2	0	0	1	-1/	3 0	-1/3		1/3	кеогр. ръб на
	+	10	0	0	113	3 0	-2/ ₃	M+2/3	2/3	Hallan, Ha ZM

4. 3a zagaranía (L):

6) nammere glorinctemara gagara (DI)

1) Ramo uguonzbate CT ot noqueour δ), no cotete eguo outune ano penenne na (3L) no outun. $c\bar{t}$ - \bar{t} na genebata n' dynague.

Pemenue: 6)

(L)
$$-7$$
 $x_1 - 2x_2 = 0$
 $-x_1 + x_2 = 1$
 $-x_1 - x_2 = -1$
 $x_1 = 0, x_2 = 0$

2) Τεμ καιμο β νο στον κα δ, μεταποθυκ νιε, τε (1) ε неогранитена, στ Сихната теорина за двой иственост следва, τе (21) е с празно попуельно наопество, следва агенно няма σи чисти пно решение. и оптим. ет-т на уславата си функцие.