Cerunan 4. Bronzaire unancemba om SCR": Bunguer, een VX, X2ES u YOE[0,1] => 0x,+(1-0)x2€S On SER": appurer, een VX, X2ES U AEIR => 0x,+(1-9)x2 €S 1. Tymenen aer" (203, BEIR SX (aTXZB3=5 x, x2 ES: aTx, >8, aTx2 >8 父= 日X,+(1-日)メ)~ $\alpha^T \hat{\chi} = \alpha^T (\Theta \times_1 + (1 - \Theta) \times_2) = \Theta \alpha^T \times_1 + (1 - \Theta) \alpha^T \times_2 \ge$ ≥ 06 + (1-0) 6 = 6 2. Thuren S= {X| ||x-c|| < r} MX,-CII => | (1-0) x2-C| = $= \|A(x, -c) + (1 - \theta)(x_2 - c)\| =$ = 0 UX, -CH+(1-01114, -CH & ≤ 0 V + (1-0) V = V 3. Theren 5= {x | 11x-c1=13, v>0 SX,=X+C, NXII=V= KIFX9=C&S

4. S= & XI NX-9112511X-BU23

11x-all 2 = 11x-Bu? <=>

Onn Borneywood nouterpayer	× , × _K
0, x,+ + QKXK &0;=1	•
2 0 0 0	

Forb Een S-longwer, X, ..., XKES, WE V longwood randereaged moren ES.

Om Bringnes Seserce S

flowerswee no businesse brugues sunoncembo T, remones cogenneum S con V S

a) SE COUVS SISET -> COUVS = COUVT B) S-bonymore <=> S= COUVS

7. Treeway

COUN & XXT | 11XH2=13= {AESH (Tr(A)=13

XER" I NXI 2=1

TV(XXT)=TV(XTX)=1X112 =1

AECONVE ... 3

3mb

CONVS = U { \text{\tin\text{\t

M.K. Tr - eureuroui, me 30, 11x; 112=1,
M.K. Tr-Ruseierveir, me 20 = 1
Tr(A) = 20 = 1
2,
AESH TNA) = 1
A = St diag (>1,,>n) S S-gumerorabres
$A = \lambda_1 S_1 S_1 + \dots + \lambda_n S_n S_n^T$
Tr (A) = Tr(57diag(1,, 2,1)5) =
- Tid (Td: - a /)
= Tv(557diag(>1,,>1))=
$= Tr(diag(\lambda_1,, \lambda_n)) = \Xi(\lambda_1 = 1)$
Onepargem, conparisoners bougasteur
onn F: 12" -> 12m - agreerers, ceen F(x) = Ax+6
1) Renecorarue
2) lerroires nonsurages
3) Browne vonaza upe asp.
4) 829 440 400 500
4) Bizanue npocopaza
5) Thouse genue
Onn C-verye, even VCEC u A 20 morka ACEC
Bub rereje bongusti <=> VC, C, Q, Az:
Ø, 907, IRU DO 0,C,+02C2EC
'

Ong Konureener aboverno C UK=1 20, C, +...+ OKCK | C; EC, O; ≥03 Somb Reposerce to # veryeob = xareye V # Borneyarun verceyeb= Korey $\|(\Theta_1X_1+\Theta_2X_2)\| \leq \Theta_1\|X_1\|+\Theta_2\|X_2\| \leq \Theta_1 + \Theta_2 + \Theta_2$ $\binom{x}{t} = \theta_1 \binom{x_1}{t_1} + \theta_2 \binom{x_2}{t_2} \in C$ Musica St - bornepresen narege $\Theta_1 K_1 + \Theta_2 K_2 \in S_+$ Meonero (Teonero so mgemuoenu) SuT-reneperenersequel, borynore fleingemes acll4 (603; txes atx-beo Weepers Locuperoù angesuveenn)

Sut-reneperansurer, rangembe, Bougason S-renermen T-zaveregne

fleurgymer a e RM1803 u B e R; Supatx < B

Kes Zinfaty