6. 治: 社A为科等于广的对称范阵, 四 A合同相似于对南芝阵, RP A=CTdiagla,,a.,ooc.
取个个缺为1的矩阵为CTdiagfaro,,ofC, CTdiagfo,a,aofc,,CTdiagfo,o,ar,a,ofc. p
RINY A = CTAI EII C + CTAI EIL C + MIT CTAFEIC.
$ \int_{-\infty}^{\infty} \frac{1}{2\pi} dx = (a_{i1}, a_{i2}, \dots, a_{in})^{T} \underbrace{A}_{i} = (x_{i1}, x_{i1}, \dots, x_{in})^{T} i = 1, 2, \dots, s $
$\mathcal{R} \setminus f = (X^{T} \alpha_1, X^{T} \alpha_2, \dots, X^{T} \alpha_3) \cdot (X^{T} \alpha_1, X^{T} \alpha_2, \dots, X^{T} \alpha_5)^{T}$
$= X^{T}(d_{1}, d_{2}, \dots, d_{5}) \cdot (d_{1}^{T}, d_{2}^{T}, \dots, d_{5}^{T})^{T} \times$
$= X^T A^T A X = (AX)^T A X$
Ry for the = or (ATA)
$\text{$df. } Ax=0 \Rightarrow A^{T}Ax=0 \Rightarrow x^{T}A^{T}Ax=0 \Rightarrow (Ax)^{T}Ax=0 \Rightarrow A\chi=0$
tk.r(ATA)=r(A)
是老 f= xTA× 啊以分的成 f=gh· 其中 g= aTx. h=βTx. a.β.x 都是到何量。
Many f=gh=atx.ptx = xtaptx. Dixt special product
$T_{\lambda} r(A) = r(a)^T = 1$
(E) 若 r(A)=1 by A可以多成2个到向量水, pm 形式 A=apt 放 g=dx. h= btx.f=gk
在 r(A)=2回得差为の、To A = Cdiagf1,-1,0,-10}C,Cdie.by
f= xTCTdiag{1,-1,0,0}Cx. 36 y= Cx. by, f= yTdiag{1,-1,0,0}y = yi-4+;
=(y,-y,)(y,+y,) 是2ケー次多交交多次式之致、 CX ロー

DAIL, TAGE,
4.设 Fck) = (kX,+(1-k)X) A(kX,+(1-k)X), 这是一个美子k66多次水, ke[0,1]
$F(6) = X_2 AX_2 < 0$, $F(1) = X_1 AX_1 > 0$ $\Rightarrow \exists k_0 \in (9,1), s.t. F(k_0) = 0$
$\Gamma = \alpha_i^T X \cdot \text{Id} \alpha_i = (\alpha_{i1}, \alpha_{i2}, \dots, \alpha_{in})^T, X = (x_1, x_1, \dots, x_n)^T$
Ry f = (line + 1, + 1, - 1pm 1pm = (ly, long, long) diags 1,, 1, -1,, -1} (lumbra)
= (a, x, a, x,, a, x) diag {1,1,1,-1,,-1} (a, x, a, x,, a, x)
= XT (d, d,, dp+q) drag + 1,1,1, -1, -, -1} (d, ,d, ,, oper) X,
é 由规定型改定:f3/俊俊指数≤p.负慢性指数≤g. □
6 双防设 f= X'AX为规范型,用品则进行基的的查验的项,记 f=X'AXM32 /程位
- 75数あ p, sy, dim M = "A st 市线上海 o m f 数" = n-p. ロ
$\frac{1.11)}{1.11} = 99x_1^2 - 12x_1x_1 + 48x_1x_3 + 130x_2^2 - 60x_1x_3 + 71x_3^2$
$= \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}^{T} \begin{pmatrix} 99 & -6 & 24 \\ -6 & 130 & -30 \\ 24 & -30 & 71 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \xrightarrow{\text{th}} \begin{array}{c} 199 \\ -6 & 130 \\ 24 & -30 & 71 \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \xrightarrow{\text{th}} \begin{array}{c} 199 \\ -6 & 130 \\ 24 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \xrightarrow{\text{th}} \begin{array}{c} 199 \\ -6 & 130 \\ 24 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \xrightarrow{\text{th}} \begin{array}{c} 199 \\ -6 & 130 \\ 24 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \xrightarrow{\text{th}} \begin{array}{c} 199 \\ -6 & 130 \\ 24 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{array} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{pmatrix} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{pmatrix} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{pmatrix} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{pmatrix} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & -30 & 71 \\ \end{pmatrix} \begin{pmatrix} x_1 \\ x_4 \\ x_4 & $
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$(.13). f = \sum_{i=1}^{2} \chi_{i}^{\perp} + \sum_{i \leq i, j \leq n} \chi_{i} \chi_{j}^{\perp} = \begin{pmatrix} \chi_{i} \end{pmatrix} \begin{pmatrix} \chi_{i} \\ \chi_{j} \end{pmatrix}$
1 2 - 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
を作 On = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
= 三二0 = 三二>0、女子所有吸序基注大>。
1 ± 0 ± 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1
$\frac{1}{2(1)} f = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}^{T} \begin{pmatrix} t & 1 & 2 \\ t & 1 & 2 \\ x_3 \end{pmatrix} \xrightarrow{Z_2} \frac{Z_2}{Z_3} \xrightarrow{Z_3} \frac{Z_3}{Z_3} \xrightarrow{Z_3} \xrightarrow{Z_3} \frac{Z_3}{Z_3} \xrightarrow{Z_3} \xrightarrow{Z_3} \frac{Z_3}{Z_3} \xrightarrow{Z_3} \xrightarrow{Z_3} \frac{Z_3}{Z_3} \xrightarrow{Z_3} $
十正定台トゼッのハーケザーヤナンの台ーにたくしへかくたくき合のくたくき
4. 自设Ammq有特的多为人,,入n. 取t~maxfx. ~ >>> t+min{1, >n}>0 的有
t6+A(A)4987\$1212>0. ⇒ A &2
了 不好在人物 外及记忆在中央Vn们向重x 新有X'AX>0. ■又ADI的、ky A羊之
四人的湖南村18位20,如(A)20运与1A1公产商!
8. A. B正定,不妨没 A=L. 不时等件和 因为专件和保护在各族 A→CTAC=L. B→CTBC.
下明报表。由为 BIZ \$\ BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB

D	PATE.	PAGE.	-1 -11		N-1 -11	N-1 -1
9	$f = n \sum_{i=1}^{n} x_i^2 - \left(\sum_{i=1}^{n} x_i^2\right)$	$\left(\frac{x_i}{1}\right)^2 = \chi^7 \left(\frac{x_i}{1}\right)^2$	n-1	X, ZDK=	-11 11-1	= -
=	1100	- on	0	>0 ∀	} >	M~ M~
_	i O n	Nx(Ki)	n (K+1) x (K+1)		l = o ifk=	`
=	> f.顺序主子式分	20 => f#	正定			\Box
12	1.(1). A-dias	$f = -\chi_1^2 + 2\chi_2^2$	2x5++ 2xn	g = 2x2-x2-2	(3 Xn . 12	1.有斤,多排改是.
11	e.f+g正是.			N T/4 21/7.	1	D (AD
(2). 引起: p(A+B)	≤ P(A)+P(B)	. 13-00 : (1 ₁) (OB) (I	() = A+B. →	p(ArB) ≤p(OB)
及题,	2.7+7止及.). 弓(ゼ: p(A+B))の(右. p(A+B)≤p((A) + (2(B) < 1.	+== n ⇒ p	(A+13) ≤ n-1 =)	$f + g = \chi'(A+B)$	X 1/ 1/ 2 3 1/ X
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			,	· · · · · · · · · · · · · · · · · · ·		
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