No.
Date · · [0]
/)记A 表 () () () () () () () () () (
Variable of the state of the st
X BY CAN SX STEPPER
则记 Dn=det(xI-A) D=x D=x2-1
$Dn = \lambda Dn + Dn - Dn - 2$
→ in Dn- dDn+= B(Dn+-dDn=)
DI Dn-BDn= d(Dn-BDn)
그들은 그는 그리고 있는데
其中 $S \alpha + \beta = \lambda$ $Dn - \alpha Dn + = \beta^{n2} (D_2 - \alpha D_1) = \beta^n$ $\alpha \beta = 1$ $Dn - \beta Dn + = \alpha^n$
0当 d+B,即对4 入社2时
Dn= 2-P (3(411)) 1+sb
= 161/1/1/1/26)
今Dn=0 则 2 ^{nH} = BnH .: d ^{2nt2} =1
$d = e^{i \frac{k}{k}} (k=0,1,\ldots,2nH)$
$\lambda = \alpha + \alpha^{-1} = 2\cos \frac{k\pi}{m} (k = -1/2 - 1)$
②当×=β 即 入²=4时
$D_{n} = (f_{1}+1)(\frac{\lambda}{2})^{n} + 0$
.: 土>不是A的特征值
· A的所有特征值为 2 ws 祭 (k=1,2,3,,17)
tet (Int D) I c
1.4.5% + 1.5.6.6.4.1.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1

设 P = diag \$1,2,4,83 RUP = diag \$1, 立, 在, 每了-B的特征值的实部都>2 由于A与B相1以 A的特征值的安部都罗格大和 证毕 3. 火人,少,和人,沙,都是C"上的内积 ○ <x. x7, ≥0 当且仅当 x=0时有 <x. x>, =0 = <次,×2≥0,当且仅当 ×-0时有 <</p> $\langle x,y\rangle_1 = \langle y,x\rangle_1 \quad \langle x,y\rangle_2 = \langle y,x\rangle_2$ (x1+x2, y>, => Kx1, y>, + (x2, y>, < x1+x2, y72 = < x1, y72 + < x2, y72 .: (x, x) = (x, x) + (x, x) ≥ ≥ 0 , 当且仅当 x=0 时有 (x, x) = 0 @ <x,y> = <x,y>, + <x,y>z = <y,x>, + <y,x>z 3 <x1+x2, y7 = <x1+x2, y7, + <x1+x2, y72 = <x1, y>, + <x1, y>, + <x2, y>,+ <x2, y>,+ <x2, y>z

= <x,,4> + <x,y>

No.	
Date	
	- (xd,y) + (xd,y)2
	= 2 <x,y>, + 2(x,y>2</x,y>
	= X < x y > 1 = - 7 \
	上的一个内积
6421, JA127 TE	业主A等色才图2 二人,所经营运行文。
4.证明:	The second secon
	b, c-d > + < a-d, b-c >
= <0	,c-d>+<-b, c-d>+<0, b-c>+<-d. b-c>
	d, a> - < c-d, b> + < b-c, a> - < b-dc, d>
	az- <d,az-<c,b>+<d,b>+<b,a>-<c,a></c,a></b,a></d,b></d,az-<c,b>
	- <bd>- <bd>- <bd>- <bd>- - <br <="" td=""/></bd></bd></bd></bd>
	> < < c, b> - < a, d> + < c, d>
	, b> + <c-a,d> = = = = = = = = = = = = = = = = = = =</c-a,d>
$\mathbb{A} = \langle b \rangle$	2-c> -(dc, a-c> (2.x>) = (2.x>)
= <b-< td=""><td>-d, a-c></td></b-<>	-d, a-c>
A 1 = 20-	ab-d7 < 1/2 ×> = 1/2 ×= 1/
证毕	@ (x,y) = (x,y) = 5
	B SKITZ PRINCH CHIPS IN COLOR
	$X = [X_1, X_2, \dots, X_n]^T$