-. \$7: \(\frac{20144}{5m; \text{th } \text{Th}; \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) $A = \begin{bmatrix} 1 & 3i & 0 \\ -3i & 1 & 0 \\ 0 & 0 & 4 \end{bmatrix} | \lambda t - A | = \begin{vmatrix} 3i & \lambda + 0 \\ 3i & \lambda + 0 \end{vmatrix} = (\lambda - 4)^{2}(\lambda + 2)$ $3\lambda = 4B^{\dagger} \begin{bmatrix} 3 & -5i & 0 \\ 3i & 3 & 0 \end{bmatrix} = \begin{bmatrix} 1 & -i & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad \partial_{1} = (i, 1, 0)^{T} \quad \forall i = (\frac{i}{12}, \frac{1}{12}, 0)^{T}$ $4E^{\dagger}A = \begin{bmatrix} 3 & -5i & 0 \\ 3i & 3 & 0 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix} \quad \partial_{2} = (0, 0, 1)^{T} \quad \forall 2 = (0, 0, 1)^{T}$ $\frac{3}{3} \chi = -20 \overline{f}$ $-26 - A : \begin{bmatrix} -3 & -3 & 0 \\ 3 & -3 & 0 \\ 0 & 0 & -6 \end{bmatrix} = \begin{bmatrix} i & -1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$ $\frac{1}{5} \chi = -20 \overline{f}$ $\frac{1}{5} \chi = -20 \overline{f}$ 全 X= Uy, 其中 Y= (Yux, 为). 代入=次里 (1): f(x1, x2, x3) = XAX = JH(UHAU) y = 49, y1 +49, y1 -2 9343. .. 0= |XI-AB| = |XI-OHOB| = |XdtaH)-L QHOB QHQM)-1 = 12H11 XI- QBQH1 (CQH)+1 = 1XI- QBQH1 ·,人也BXBIF QBQH的特位含 图型以 QBQH为H阿 二次文义 同型证BAGT特近医标文表 回·科: A= 100 1 AH- 120-2 AAH- 1500 -5 (XG-AAH)= x(X-10)

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(XG-AAH)= x(X-10)

(XG-AAH)= x(X-10)

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きれっり=の町
  -AAH= [-5 0 5] = [-101] == (1,0,1) M=(t,0,t)]
                                           A = [ 0 0 ] B=[0] C=[ -]
   A: UDVH: [-京京) (-京京) (-京京)
                                         A = BC.
A+= CH(CCH)-(BHB)+BH
                                           一一一点
五柳
版注: ## $ 11A11 to at, but >0 : 11A11>0
           $ 11A11=00, |aij|=0 : 11A11=0
|文柱. 11kA11 = John max ||Caij| = 1A John max |aij| = 1 k11/A11
THEST HAECTON, BECOM
       11 At B|1 = Jmn max author Jmn max loil + Jmn max bij = 11A11 +1181
時動転相信性 O A E Cmxm , B E Cmxl
      NABII = Jml max | & aik bbj | € Jml max & laik lbkj | € Jml n mad laik
            = Jmn mail | Gik | · Int mail | baj | = 11411 (1811
1 = 1 1 0 | = x (141) | 1=0 | 1=1 /3=-1
 -A=[0, = ]=[0, = ] = [0, = , = ] ]
 DIS=-107
-18-A: [-1-10] = [0] 0] 25=(-10-1) 1 13=(-1-10-1)
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1378: SIN 276 8= [0.0]

1.他所:

$$\frac{dA(t)}{dt} = \begin{bmatrix} 2e^{2t} & 0 & 0\\ 0 & 0 & 2t\\ 0 & 2t & 0 \end{bmatrix}.$$

$$\int_{0}^{\chi^{2}} A(t) dt = \begin{bmatrix} \frac{1}{2}e^{1\chi^{2}} & 0 & 0 \\ 0 & 3\chi^{2} & \frac{1}{3}\chi^{6} \\ 0 & \frac{1}{3}\chi^{6} & 3\chi^{2} \end{bmatrix}$$

$$: \overline{d\chi} \left(\int_{S}^{\chi^{2}} A(t) dt \right) = \begin{bmatrix} \frac{e^{2\chi}}{2\chi} & 0 & 0 \\ 0 & 6\chi & 2\chi S \\ 0 & 2\chi S & 6\chi \end{bmatrix}$$