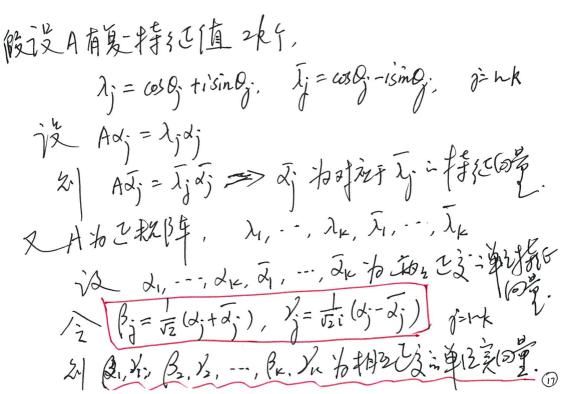
S4. 正郊午 5西中 一, 闽华 AA = En 一天北洋 这阵 An = En th. 没有为两件, 别和特征值儿儿=1. 记·设A=U(小人)小 U为两件.  (19)

差m A". --, A(m) 正的はこえ

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二、这阵在这种心支持下一最简单形式  $A'A = E_n$ ,  $|\lambda i| = 1$ . 名A-特征值为刊,从A 23(1)1-1、山) i.e., = 122 PFP. + PTAP = ("'-1.) 名有复特征值入= cosol+isino, 刘元=cosol-isino, 并对接近



$$\frac{1}{\sqrt{2}} \int_{-\infty}^{\infty} \int_{-\infty}^{$$

$$= \cos Q_{j} \frac{\partial y \partial y}{\partial z} + \frac{1}{12} \sin Q_{j}$$

$$= \cos Q_{j} \frac{\partial y}{\partial y} - \sin Q_{j} \frac{\partial y}{\partial y}$$

$$A \frac{\lambda}{j} = \frac{1}{\sqrt{2}i} A (\lambda_{j} - \lambda_{j})$$

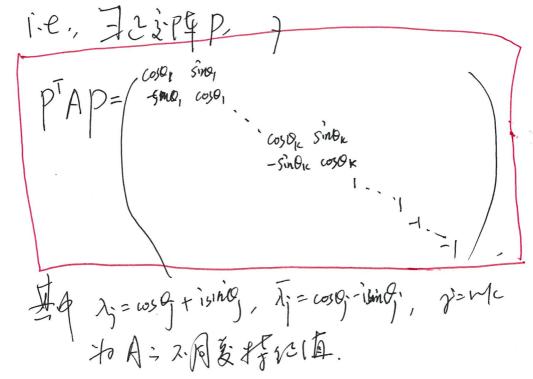
$$= \frac{1}{\sqrt{2}i} (\omega_{5}0_{j} + i\sin\theta_{j}) \lambda_{j} - \frac{1}{\sqrt{2}i} (\omega_{5}0_{j} - i\sin\theta_{j}) \lambda_{j}$$

$$= \sin\theta_{j} \frac{\lambda_{j} + \lambda_{j}}{\sqrt{2}i} + \cos\theta_{j} \cdot \frac{\lambda_{j} - \lambda_{j}}{\sqrt{2}i}$$

$$= \sin\theta_{j} \frac{\lambda_{j} + \lambda_{j}}{\sqrt{2}i} + \cos\theta_{j} \cdot \frac{\lambda_{j} - \lambda_{j}}{\sqrt{2}i}$$

$$= (\beta_{1}, \lambda_{1}, -\cdot, \beta_{1c}, \lambda_{1c}, \lambda_{2kn}, -\cdot, \lambda_{n}) / \cos\theta_{1} \cdot \frac{\cos\theta_{1}}{\cos\theta_{1}} \cdot \frac{\cos\theta$$

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$$\{\lambda^{1}\}, A \in \mathbb{R}^{3\times3}, A = \mathbb{E}_{3}.$$
 $\{\lambda^{1}\}, A \in \mathbb{R}^{3\times3}, A = \mathbb{E}_{3}.$ 
 $\{\lambda^{1}\}, A \in \mathbb{R}^{3\times3}, A \in \mathbb{R}^{3\times3}, A \in \mathbb{R}^{3\times3}.$ 
 $\{\lambda^{1}\}, A \in \mathbb{R}^{3\times3}, A \in \mathbb{R}^{3\times3}, A \in \mathbb{R}^{3\times3}.$ 
 $\{\lambda^{1}\}, A \in \mathbb{R}^{3\times3}.$ 
 $\{\lambda^{1}\},$ 

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$$A = \begin{pmatrix} -\frac{2}{3} & -\frac{1}{3} & \frac{2}{3} \\ \frac{2}{3} & \frac{1}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{2}{3} \end{pmatrix}$$

$$\lambda = \begin{pmatrix} -\frac{2}{3} & -\frac{1}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{2}{3} \end{pmatrix}$$

$$\lambda = \begin{pmatrix} -\frac{1}{3} & \frac{2}{3} & \frac{2}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{2}{3} \end{pmatrix}$$

$$A \sim \begin{pmatrix} \frac{1}{2} & \frac{5}{3} \\ -\frac{7}{2} & \frac{1}{3} \end{pmatrix}$$

$$2 \neq \lambda z \neq \lambda = | -1 \neq \lambda z = \frac{1}{3} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \rightarrow 3 \neq 2 \neq 3$$

$$Q = \frac{1}{3} \rightarrow 3 \neq 2 \neq 3$$