2025-04-01 572401410 郭温男 第二次推 (补充)

$$A = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 0 & 0 & 0$$

$$\lambda(A-J) = \lambda(-\frac{2XX^{H}}{\|X\|^{2}}) = \left\{ tr(-\frac{2XX^{H}}{\|X\|^{2}}), 0, 0 \right\} = \left\{ -2, 0, 0 \right\}$$

$$\frac{1}{\|X\|^{2}} \frac{1}{\|X\|^{2}} \lambda(A) = \left\{ -1, 1, 1 \right\}$$

2025-04-01 972401410 部部 第次性 (4元)

EXL(绿)对你矩阵计算ORSH

和一班一日 57240日10 新名男 第次作业(海克)

$$A = \begin{pmatrix} \frac{2}{3} & \frac{1}{2} & \frac{6}{1} & \frac{1}{0} & 0 \\ \frac{2}{3} & \frac{3}{10} & -1 & 3 \\ 4 & 4 & 16 & 0 & -1 \end{pmatrix} \xrightarrow{\Gamma_2 - \Gamma_1} \begin{pmatrix} \frac{2}{1} & \frac{6}{10} & 10 \\ \frac{1}{1} & \frac{4}{16} & 0 & 0 \\ \frac{2}{3} & \frac{3}{10} & -1 & 3 \\ \frac{2}{4} & \frac{3}{10} & 0 & 0 \\ \frac{2}{3} & \frac{3}{10} & -1 & 3 \\ \frac{2}{4} & \frac{1}{10} & 0 & -1 \end{pmatrix} \xrightarrow{\Gamma_1 - 2\Gamma_2} \begin{pmatrix} 0 - 1 - 2 & 10 \\ 0 & 1 & 2 & -1 & 3 \\ \frac{7}{10} - 2\Gamma_2} \begin{pmatrix} 0 - 1 - 2 & 10 \\ 0 & 1 & 2 & -1 & 3 \\ 0 & 1 & 2 & -1 & 3 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$\frac{\Gamma_1+\Gamma_2}{-\Gamma_3}$$
 $\begin{pmatrix} 1 & 0 & 2 & 1 & 0 \\ 0 & 1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}$ 这湖 $\operatorname{rank}(A)=3$, 取第 1,2,5 列为代表》

$$A = \begin{pmatrix} 2 & | & 0 \\ 3 & 2 & 0 \\ 2 & 3 & 3 \\ 4 & 4 & -1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 2 & 1 & 0 \\ 0 & 1 & 2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 1 & 6 & 1 & 0 \\ 3 & 2 & | & 0 & 1 & 0 \\ 2 & 3 & | & 0 & 1 & 3 \\ 4 & 4 & | & | & 0 & -1 \end{pmatrix}$$

現 A=BC 为A部高低解