$$A = \begin{bmatrix} 1 & 4 \\ 2 & 0 \end{bmatrix}$$

$$AA = \begin{bmatrix} 1 & 2 \\ 4 & 0 \end{bmatrix} \begin{bmatrix} 1 & 4 \\ 2 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 5 & 20 \\ 20 & 00 \end{bmatrix}$$

$$(5 - \lambda)(80 - \lambda) - 20^{2} = 0$$

$$(\lambda - 85) = 0$$

$$\lambda = 0, 85$$

$$\lambda = 05 \begin{bmatrix} 5 - 85 & 10 \end{bmatrix} \begin{bmatrix} x_{1} \\ 20 & 80 - 85 \end{bmatrix} \begin{bmatrix} x_{2} \\ x_{2} \end{bmatrix} = 0$$

$$20 \begin{bmatrix} -80 & 20 \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix} = 0$$

$$20 \begin{cases} -80 & 20 \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix} = 0$$

$$20 \begin{cases} -90 \end{bmatrix} \begin{cases} x_{2} \\ x_{2} \end{bmatrix} = 0$$

$$3 \begin{cases} -41 \\ 1 \end{cases} \text{ eigvich}$$

$$50, V = \begin{bmatrix} 1/\sqrt{17} & -4/\sqrt{17} \\ 4/\sqrt{17} & -4/\sqrt{17} \\ 3/\sqrt{17} & -4/\sqrt{17} \end{bmatrix}$$

$$3/\sqrt{17} = \frac{1}{2} \begin{cases} -4/\sqrt{17} \\ 4/\sqrt{17} & -4/\sqrt{17} \\ 3/\sqrt{17} & -4/\sqrt{17} \end{cases}$$

$$3/\sqrt{17} = \frac{1}{2} \begin{cases} -4/\sqrt{17} \\ 3/\sqrt{17} & -4/\sqrt{17} \end{cases}$$

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$$3/\sqrt{17} = \frac{1}{2}$$



