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$$A = \begin{pmatrix} 6 & -1 \\ 5 & 2 \end{pmatrix}$$

$$\lambda_1 = 4 + i$$

$$\lambda_2 = 4 - i$$

$$K_1 = \begin{bmatrix} 0.36 \\ 0.91 \end{bmatrix} + \begin{bmatrix} 0.18 \\ 0 \end{bmatrix} i$$

$$x = c_1 e^{\alpha t} \begin{pmatrix} \cos(\beta t) \beta_1 - \sin(\beta t) \beta_2 \\ \sin(\beta t) \beta_1 + \cos(\beta t) \beta_2 \end{pmatrix}$$

$$+ c_2 e^{\alpha t} \begin{pmatrix} \sin(\beta t) \beta_1 + \cos(\beta t) \beta_2 \\ \cos(\beta t) \beta_1 - \sin(\beta t) \beta_2 \end{pmatrix}$$

$$\lambda = 4 \quad \beta = 1$$

$$\text{" } \cos(\beta t) \quad \beta = 1 \text{"}$$

$$\text{" } e^{i\theta} = \cos(\theta) + i \sin(\theta) \text{"}$$

$$\text{" } e^{(\lambda + i\beta)t} = e^{\alpha t} \left(\cos(\beta t) + i \sin(\beta t) \right) \text{"}$$