

HOMEWORK 10-PART A

1. Solve the linear system $x' = Ax$, where $A = \begin{pmatrix} -3 & 1 \\ -1 & -1 \end{pmatrix}$.

2. Solve the linear system $x' = Ax$, where $A = \begin{pmatrix} -2 & 1 \\ -9 & 4 \end{pmatrix}$.

3.(1) Solve the linear system $x' = Ax$, where $A = \begin{pmatrix} 2 & 4 \\ -1 & 6 \end{pmatrix}$.

(2) Solve the linear system $x' = Ax$, where $A = \begin{pmatrix} -2 & 0 \\ 0 & -2 \end{pmatrix}$.