

1. [6pts] Solve the system $Y' = AY$ where $A = \begin{bmatrix} 0 & -1 \\ 6 & 5 \end{bmatrix}$

2. [6pts] Solve the system $Y' = AY$ where $A = \begin{bmatrix} 4 & 1 \\ -4 & 0 \end{bmatrix}$