

# Jordan Canonical Form Homework

Due Wednesday May 6

1. Find the Jordan canonical form of  $\mathbf{A} = \begin{bmatrix} 1 & 1 \\ -1 & -1 \end{bmatrix}$ .

2. Find  $e^{\mathbf{A}}$  for  $\mathbf{A} = \begin{bmatrix} 3 & 1 \\ 0 & 3 \end{bmatrix}$ .

3. Find  $e^{\mathbf{A}}$  for  $\mathbf{A} = \begin{bmatrix} 1 & 1 \\ -1 & -1 \end{bmatrix}$ .