King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 260 (171) Sec 01 - Quiz 4

Name: ID: Serial No.:

1. Solve: $X' = \begin{bmatrix} 2 & 0 & 0 \\ 1 & 1 & -3 \\ -1 & 3 & 1 \end{bmatrix} X$

   Hint: $\lambda_1 = 1 + 3i$

2. Solve $Y' = \begin{bmatrix} 3 & -1 \\ 1 & 1 \end{bmatrix} Y$

   Hint: $\lambda_1 = 2$