Student Name:_____   Student Number: _____   Serial No.:_____

Instructor: M. Z. Abu-Sbeih   Math - 260.1Quiz No. 5   Date: 20-8-2005.

Show all your work. No credits for answers without work.

Find the general solution of the system $X' = A X$ *where*

Problem 1(8 Points): $A = \begin{bmatrix} 2 & 1 \\ -1 & 2 \end{bmatrix}$

Problem 2 (12 Points): $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$