

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 260 - QUIZ 4**

Name:

Student ID #:

**Question.** Consider the matrix

$$A = \begin{bmatrix} -2 & 2 & -3 \\ 2 & 1 & -6 \\ -1 & -2 & 0 \end{bmatrix}$$

Determine if  $A$  is diagonalizable or not. If it is diagonalizable find two matrices  $P$  and  $D$  so that  $A = PDP^{-1}$

**Your Solution.**