

King Fahd University of Petroleum and Minerals  
Department of Mathematics and Statistics  
Math-302 Semester-162 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 10

Section:02

Time Allowed: 30 minutes

(1) Use Gauss-Jordan elimination to find the inverse of the matrix

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

(2) Find the solution of the following system:

$$x_1 - x_2 - x_3 = 8$$

$$x_1 - x_2 + x_3 = 3$$

$$-x_1 + x_2 + x_3 = 4$$