## **Department of Mathematics and Statistics**

Quiz No. 2

Math302,Sem121

<u>Section</u>:

<u>Name</u>:

<u>ID</u>:

**Problem 1.**(3 points.)Use Gauss-Jordan elimination method to solve (if solution exists) the system of equations:

**Problem 2**(2 points)Use inverse of the coefficient matrix in question (1) to solve the system and show that your answer is same in both questions.

**Problem 3**(3 points) Find rank of the given matrix:

$$A = \left( \begin{array}{rrr} 1 & 1 & 0 \\ 1 & 0 & 4 \\ 1 & 4 & 1 \end{array} \right).$$