ISLAMIC UNIVERSITY OF TECHNOLOGY

Organization of Islamic Cooperation

Board Bazar, Gazipur

Assignment 2

MATH 4341

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**Problem 1**

**Problem 2**

If , a row exchange is needed.

This is the triangular system.

To make this system singular,

**Problem 3**

Pivots:

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**Problem 4**

For , since we get a column of s, for , since columns and become the same and for , since rows and become the same. For either of these cases, it is impossible to make the central or lower pivot non-zero.

**Problem 5**

subtracts times column from column in matrix .

exchanges columns and in matrix .

**Problem 6**

1.

2.

3.

**Problem 7**

There can only be one pivot, the first one.

**Problem 8**

**Problem 9**