**HA NOI UNIVERSITY**

**Faculty of Information Technology**

**MIDTERM EXAM (Set 2)**

***Subject: K20 Calculus***

***Duration: 60 minutes***

**Problem 1: (2 points)**

nDescribe the solutions of the following system in parametric vector form. Also, give a geometric description of the solution set.

**Problem 2: (2 points)**

For what value(s) of is linearly dependent?

**Problem 3: (3 points)**

Given

1. Find a basis for .
2. Find the and .

**Problem 4: (3 points)**

Given the following matrix:

1. Find the inverse of the matrix.
2. Find