**HA NOI UNIVERSITY**

**Faculty of Information Technology**

**MIDTERM EXAM (SET 1)**

***Subject: K20 Calculus***

***Duration: 60 minutes***

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**Problem 1: (2 points)**

Describe the solutions of the following system in parametric vector form. Also, give a geometric description of the solu**tion set.**

**Problem 2: (2 points)**

Find the value(s) of h for which the vectors are linear dependent. Justify each answer.

**Problem 4: (3 points)**

Given a matrix

1. Display the matrix in echelon form and then find a basis for .
2. Find the

**Problem 5: (3 points)**

Given the following matrix

1. Find the inverse of A.
2. Find .