Quiz 7

Name : _____

SID : _____

1. Find the dimension of the subspace H inside of $\mathbb{R}^3$ given by all vectors of the form

$$\begin{bmatrix} a + b + 2c \\ -a + b \\ b + c \end{bmatrix}$$

   where a, b, c are any real numbers.

2. If A is a 3×5 matrix, what is the largest possible dimension of the row space of A? What is the largest possible dimension of the null space $\mathrm{Nul}\ A$?