MATH 1210 Summer 2013 Quiz 4

Surname: _____

Given Name: _____

Student ID:

[7] 1. Find the equation of the plane through the points P(3, -1, 2), Q(8, 2, 4) and R(-1, -2, -3).

[4] 2. A given system (with variables x_1, x_2, x_3, x_4, x_5) has the following matrix in reduced row-echelon form. Find basic solutions for the system.

[1]	3	0	2	0	0
0	0	1	-3	0	0
0	0	0	0	1	0
0	0	0	0	0	0

3. For the following system

$$2x + 5y - 4z = 6$$
$$x + 2y - 3z = -2$$
$$3x + 8y - 5z = 14$$

[1] (a) Put the system into an augmented matrix

[5] (b) Use elementary row operations to get the matrix into reduced row-echelon form.

[3] (c) Solve the system.