

Name: _____
Student ID: _____

Quiz 9

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (10 marks) Consider the system

$$\begin{array}{ccccccccc} x_1 & & & + & x_3 & + & x_4 & = & 5 \\ 2x_1 & + & 6x_2 & - & 4x_3 & + & 2x_4 & = & 4 \\ -3x_1 & + & 2x_2 & - & 2x_3 & & & = & -2 \end{array}$$

Solve the system by Gauss-Jordan elimination and find the particular solution of the system with $x_2 = 3$.