

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

## Quiz 2

**Question 1.** (10 marks) Solve the following system of equations:

$$\begin{array}{rccccrcr} -x_1 & + & 3x_2 & & & - & x_4 & = & 0 \\ 2x_1 & - & 5x_2 & + & x_3 & - & x_4 & = & 1 \\ & & x_2 & + & x_3 & + & x_4 & = & 1 \\ x_1 & + & x_2 & + & x_3 & & & = & 0 \end{array}$$