

Last Name: \_\_\_\_\_

First Name: \_\_\_\_\_

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

## Quiz 2 (B)

**Question 1.** (8 marks) Solve the following system of equations using Gauss-Jordan elimination:

$$\begin{array}{rclcl} -2x_1 & - & 4x_2 & + & 2x_3 & & = & -2 \\ 2x_1 & + & 4x_2 & & & + & 2x_4 & = & 6 \\ x_1 & + & 2x_2 & - & x_3 & & & = & 1 \end{array}$$

**Question 2.** (2 marks) Given:

$$A = \begin{bmatrix} 2 & -5 \\ 3 & 1 \\ 6 & 0 \end{bmatrix} \quad B = \begin{bmatrix} 0 & 1 & -2 \\ 1 & 0 & 5 \end{bmatrix} \quad C = \begin{bmatrix} 0 & 1 \\ 1 & 3 \end{bmatrix}$$

Compute  $CB - 2A^T$  if possible.