

Name: _____
Student ID: _____

Quiz 5

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. §1.5 #29 (5 marks) Write the given matrix as a product of elementary matrices

$$\begin{bmatrix} -3 & 1 \\ 2 & 2 \end{bmatrix}$$

Question 2. §1.6 #3 (5 marks) Solve the system by inverting the coefficient matrix.

$$\begin{aligned} x_1 + 3x_2 + x_3 &= 4 \\ 2x_1 + 2x_2 + x_3 &= -1 \\ 2x_1 + 3x_2 + x_3 &= 3 \end{aligned}$$