Name:

## Quiz 2

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.** §1.2 #TF (2 marks) Determine whether the statement is true or false, and justify your answer. If an elementary row operation is applied to a matrix that is in row echelon form, the resulting matrix will still be in row echelon form.

**Question 2.** §1.2 #TF (*3 marks*) Determine whether the statement is true or false, and justify your answer. Every matrix has a unique row echelon form.

Question 3. §1.2 #20 (5 marks) Solve the given linear system by any method.

v + 3w - 2x = 0 2u + v - 4w + 3x = 0 2u + 3v + 2w - x = 0-4u - 3v + 5w - 4x = 0