| Name: | | | |
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Quiz 1

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. §1.1 #5d (2 marks) Determine whether the following system is consistent.

$$x_1 + x_2 = x_3 + x_4$$

Question 2. §1.1 #11a (2 marks) Find a system of linear equations corresponding to the given augmented matrix.

$$\begin{bmatrix} 2 & 0 & 0 \\ 3 & -4 & 0 \\ 0 & 1 & 1 \end{bmatrix}$$

Question 3. §1.1 #14b (2 marks) Find the augmented matrix for the given system of linear equations

Question 4. §1.1 #7b (2 marks) Determine whether the given vector (3, -1, 1) is a solution of the linear system

Question 5. §1.1 #TF (2 marks) Determine whether the statement is true or false, and justify your answer. The linear system with corresponding augmented matrix

$$\begin{bmatrix} 2 & -1 & 4 \\ 0 & 0 & -1 \end{bmatrix}$$

is consistent.