

Math 4A Quiz 1 – October 13, 2014

1. What is the definition of a **consistent** and **inconsistent** system?

2. Given the augmented matrix

$$A = \left[\begin{array}{ccccc|c} 3 & 8 & 0 & 0 & 0 & 0 \\ 0 & 0 & 5 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 3 & 0 \end{array} \right]$$

(i). Is A in echelon form or reduced row echelon form?

(ii). How many solutions are there to the system? Why?

(iii). If a solution exists, write a particular solution.