

Show your work and box your final answer. No calculators or phones. You have 20 minutes. Keep your quiz until the end.

Name and section: _____

1. (5 points) Find all solutions to the linear system with **augmented** matrix

$$\left[\begin{array}{ccc|c} 1 & 5 & -3 & 4 \\ -2 & -9 & 5 & 6 \end{array} \right].$$

2. (5 points) For what numbers a, b, c is the following matrix in row echelon form (REF)? What about reduced row echelon form (RREF)?

$$\begin{bmatrix} 0 & a & 0 & 2 & 0 \\ 0 & 0 & b & 0 & 0 \\ 0 & 0 & 0 & c & 1 \end{bmatrix}$$