

MATH 335 Quiz 1

Name: _____

Show all work. 5 points each.

1.. Write the system of equations corresponding to the augmented matrix $A = \begin{bmatrix} 1 & 3 & 4 & 7 \\ 3 & 9 & 7 & 6 \end{bmatrix}$.

If $\begin{bmatrix} 1 & 3 & 0 & -5 \\ 0 & 0 & 1 & 3 \end{bmatrix}$ is the matrix in row reduced echelon form, what is the general solution?

2. Let $A = \begin{bmatrix} 1 & 6 \\ 0 & -5 \\ 1 & 6 \end{bmatrix}$ and $\mathbf{b} = \begin{bmatrix} 2 \\ 5 \\ 1 \end{bmatrix}$. Is \mathbf{b} in the span of the columns of A ? Explain!