MATH 335 Quiz 1 Name: .
Fall 16

Show all work. 5 points each.

1. Show row reduced echelon form (rref) of matrix and find the general solution of the system whose augmented matrix is

$$\begin{bmatrix} 0 & 1 & -6 & 5 \\ 1 & -2 & 7 & -6 \end{bmatrix}$$

2. Is $\mathbf{b}$ a linear combination of the columns of A? Explain and show the rref of matrix.

$$\mathbf{b} = \begin{bmatrix} 3 \\ -7 \\ -3 \end{bmatrix} \quad \begin{bmatrix} 1 & -4 & 2 \\ 0 & 3 & 5 \\ -2 & 8 & -4 \end{bmatrix}$$