

Name:  
Student ID #:

Math 308-M  
Quiz 1

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1. [6 points] Write the following augmented matrix in **reduced** echelon form:

$$\left[ \begin{array}{ccccc} 1 & 1 & -4 & -1 & 6 \\ -3 & -1 & 16 & 5 & -2 \\ 1 & 0 & -6 & 0 & 4 \end{array} \right]$$

2. [2 points] Write one (just one!) solution to this system of linear equations:

$$\begin{aligned} x_1 + x_2 - 4x_3 - x_4 &= 6 \\ -3x_1 - x_2 + 16x_3 + 5x_4 &= -2 \\ x_1 - 6x_3 &= 4 \end{aligned}$$

3. [2 points] Write a matrix with three columns and four rows which is in echelon form, but *not* reduced echelon form.