

## Quiz 1

1. Write the augmented matrix for the given system of equations, and row reduce to find the rref of the augmented matrix. You do not have to solve the system, just find the rref. (10 pts.)

$$x \quad +2z = -1$$

$$2x \quad +4z = -2$$

$$3y \quad -9z = 3$$

2. Suppose a given system has an augmented matrix with the following rref. Write the solutions to the system in parametric equation form. (10 pts.)

$$\left[ \begin{array}{ccc|c} 1 & 2 & 0 & 3 \\ 0 & 0 & 1 & 3 \\ 0 & 0 & 0 & 0 \end{array} \right]$$