Mat 110 **Quiz 7 Take Home** Name:_____

Total pts out of 20 _____

Use Gauss Jordan Elimination to solve the following systems of Equations. State what kind of systems they are. If there are more than one solutions, give the general solution and a solution.

a. $\begin{cases} 3x - 2y + 4z = 9 \\ x - 3y + z = -3 \\ 2x + 3y - z = 0 \end{cases}$

b. $\begin{cases} -3x + 9y - \frac{1}{3}z = 10 \\ x - 3y + z = -3 \\ 2x + 3y - z = 0 \end{cases}$

c. $\begin{cases} 3x - 2y + 4z = 9 \\ x - 2y + z = -3 \\ -2x + 4y - 2z = 6 \end{cases}$