Solving Systems with Matrices                                    NAME:

For the following questions, consider the augmented matrix below.

$$\begin{bmatrix} 1 & -1 & 1 & | & 10 \\ 0 & 3 & 3 & | & 5 \\ 1 & 1 & 2 & | & 2 \end{bmatrix}$$

a.) What is the order of this augmented matrix?

b.) Using $x$, $y$, and $z$ as the variables, write down the three equations that this matrix represents.

c.) Perform the row operations $R_2 = \dfrac{1}{3} r_2$ and $R_3 = -1r_1 + r_3$.

d.) Use the calculator to solve this (given) augmented matrix and write the solution as an ordered triplet. Round values to two decimal places.