4.2 Practice Activity

Practice 4.2-1-1:

Write the following systems as augmented matrices and identify the size of the matrix.

$$\begin{cases} -y + z = 2 \\ x + 4y + 2z = 0 \\ 5x - 2y + z = -5 \end{cases}$$

Practice 4.2-2-1:

Write system of linear equations from the augmented matrix.

$$\left[\begin{array}{ccc|c} 0 & 1 & 5 & 1 \\ 0 & 1 & 7 & 0 \\ -3 & 2 & 1 & 2 \end{array} \right]$$

Practice 4.2-3-1:

Use the matrix perform the indicated row operation $R_2 \leftrightarrow R_3$.

$$\left[\begin{array}{ccc|c} 1 & 2 & 5 & 0 \\ 3 & -1 & 0 & 3 \\ 2 & 4 & 1 & 1 \end{array} \right]$$