Name _____ Date _____

Year Group _____

Use the following matrices to answer the questions below

A. $\begin{bmatrix} 3 & 6 \\ -2 & 2 \end{bmatrix}$ B. $\begin{bmatrix} 7 \\ 4 \end{bmatrix}$ C. $\begin{bmatrix} -2 & 7 \\ 5 & 4 \end{bmatrix}$

1. How many matrices can we add to matrix A? Answer = ___

2. How many matrices can we add to matrix B? Answer = ___

Add or Subtract the following matrices

3. $\begin{bmatrix} 5 & 7 \\ -2 & 6 \end{bmatrix} + \begin{bmatrix} 1 & -2 \\ 0 & 4 \end{bmatrix}$

Answer = $\begin{bmatrix} __ & __ \\ __ & __ \end{bmatrix}$

4. $\begin{bmatrix} -2 & 4 \\ 6 & 3 \end{bmatrix} - \begin{bmatrix} 4 & 6 \\ 4 & -1 \end{bmatrix}$

Answer = $\begin{bmatrix} __ & __ \\ __ & __ \end{bmatrix}$

5. $\begin{bmatrix} 0 & 4 & 2 \\ -2 & 1 & -4 \\ 5 & 7 & 8 \end{bmatrix} + \begin{bmatrix} -3 & 4 & 3 \\ -5 & 7 & 6 \\ 6 & 2 & -2 \end{bmatrix}$

Answer = $\begin{bmatrix} __ & __ & __ \\ __ & __ & __ \\ __ & __ & __ \end{bmatrix}$

Find the missing elements to make the solution true

6. $\begin{bmatrix} 5 & __ \\ -4 & 14 \end{bmatrix} + \begin{bmatrix} 4 & 6 \\ __ & -1 \end{bmatrix} = \begin{bmatrix} 9 & 6 \\ 8 & 13 \end{bmatrix}$

Answer = $\begin{bmatrix} 5 & __ \\ -4 & 14 \end{bmatrix} + \begin{bmatrix} 4 & 6 \\ __ & -1 \end{bmatrix}$

LIVEWORKSHEETS