

Student Name: _____

Score: _____

Addition of three matrices

Sheet 2

Find the sum of matrices:

$$\begin{bmatrix} 1 & 3 & 7 \\ 6 & 4 & 2 \end{bmatrix} + \begin{bmatrix} 7 & 0 & 21 \\ 1 & 3 & 4 \end{bmatrix} + \begin{bmatrix} 2 & -5 & 1 \\ 18 & 25 & 12 \end{bmatrix} =$$

$$\begin{bmatrix} -7 & -2 \\ 3 & 4 \\ 8 & 12 \end{bmatrix} + \begin{bmatrix} 3 & 2 \\ 5 & 7 \\ 9 & -2 \end{bmatrix} + \begin{bmatrix} 17 & 23 \end{bmatrix}$$

$$\begin{bmatrix} 12 \\ -7 \\ 47 \end{bmatrix} + \begin{bmatrix} 53 \\ -3 \\ 8 \end{bmatrix} + \begin{bmatrix} -42 \\ 10 \\ -37 \end{bmatrix} =$$

$$\begin{bmatrix} 1 & 3 & 5 \\ 7 & 9 & 1 \end{bmatrix} + \begin{bmatrix} 13 & 10 \\ 16 & 7 \end{bmatrix}$$

$$\begin{bmatrix} -5 & 0 \\ 0 & 0 \end{bmatrix} + \begin{bmatrix} 0 & -5 \\ -5 & 0 \end{bmatrix} + \begin{bmatrix} 0 & -5 \\ 0 & -5 \end{bmatrix} =$$

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Answer key

Addition of three matrices

Sheet 2

$$\begin{bmatrix} 1 & 3 & 7 \\ 6 & 4 & 2 \end{bmatrix} + \begin{bmatrix} 7 & 0 & 21 \\ 1 & 3 & 4 \end{bmatrix} + \begin{bmatrix} 2 & -5 & 1 \\ 18 & 25 & 12 \end{bmatrix} = \begin{bmatrix} 10 & -2 & 29 \\ 25 & 32 & 18 \end{bmatrix}$$

$$\begin{bmatrix} -7 & -2 \\ 3 & 4 \\ 8 & 12 \end{bmatrix} + \begin{bmatrix} 3 & 2 \\ 5 & 7 \\ 9 & -2 \end{bmatrix} + \begin{bmatrix} 17 & 23 \\ 13 & 23 \end{bmatrix}$$

$$\begin{bmatrix} 12 \\ -7 \\ 47 \end{bmatrix} + \begin{bmatrix} 53 \\ -3 \\ 8 \end{bmatrix} + \begin{bmatrix} -42 \\ 10 \\ -37 \end{bmatrix} =$$

$$\begin{bmatrix} 1 & 3 & 5 \\ 7 & 9 & 1 \end{bmatrix} + \begin{bmatrix} 13 & 10 \\ 16 & 7 \end{bmatrix}$$

$$\begin{bmatrix} -5 & 0 \\ 0 & 0 \end{bmatrix} + \begin{bmatrix} 0 & -5 \\ -5 & 0 \end{bmatrix} + \begin{bmatrix} 0 & -5 \\ 0 & -5 \end{bmatrix} = \begin{bmatrix} -5 & -10 \\ -5 & -5 \end{bmatrix}$$

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