

Student Name: _____

Score: _____

Addition and Subtraction of Matrices

Sheet 2

$$\begin{bmatrix} 12 & -15 \\ 34 & 3 \end{bmatrix} - \begin{bmatrix} 18 & 5 \\ 22 & 4 \end{bmatrix} =$$

$$\begin{bmatrix} 3 & 6 & -2 \\ 17 & 32 & 8 \\ -12 & 9 & 5 \end{bmatrix} + \begin{bmatrix} 7 & 1 & 9 \\ 21 & -15 & 2 \\ 8 & & \end{bmatrix} =$$

$$\begin{bmatrix} -17 & 5 \\ 22 & 8 \end{bmatrix} + \begin{bmatrix} 6 & -3 \\ 9 & 14 \end{bmatrix} =$$

$$\begin{bmatrix} 3 & 7 & 9 \\ 1 & 2 & 3 \\ 8 & -4 & 6 \end{bmatrix} - \begin{bmatrix} 11 & -8 \\ 5 & -2 \\ 4 & 12 \end{bmatrix} =$$

$$\begin{bmatrix} 15 & 2 \\ -3 & 8 \end{bmatrix} + \begin{bmatrix} 7 & -3 \\ 5 & 4 \end{bmatrix} =$$

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Answer key

Addition and Subtraction of Matrices

Sheet 2

$$\begin{bmatrix} 12 & -15 \\ 34 & 3 \end{bmatrix} - \begin{bmatrix} 18 & 5 \\ 22 & 4 \end{bmatrix} = \begin{bmatrix} -6 & -20 \\ 12 & -1 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 6 & -2 \\ 17 & 32 & 8 \\ -12 & 9 & 5 \end{bmatrix} + \begin{bmatrix} 7 & 1 & 9 \\ 21 & - & \\ 8 & & \end{bmatrix} = \begin{bmatrix} 10 & 7 & 7 \end{bmatrix}$$

$$\begin{bmatrix} -17 & 5 \\ 22 & 8 \end{bmatrix} + \begin{bmatrix} 6 & -3 \\ 9 & 14 \end{bmatrix} = \begin{bmatrix} -11 & 2 \\ 31 & 22 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 7 & 9 \\ 1 & 2 & 3 \\ 8 & -4 & 6 \end{bmatrix} - \begin{bmatrix} 11 & -8 \\ 5 & -2 \\ 4 & 12 \end{bmatrix} = \begin{bmatrix} -8 & 15 & 17 \\ -4 & 4 & -9 \\ 4 & -16 & -6 \end{bmatrix}$$

$$\begin{bmatrix} 15 & 2 \\ -3 & 8 \end{bmatrix} + \begin{bmatrix} 7 & -3 \\ 5 & 4 \end{bmatrix} = \begin{bmatrix} 22 & -1 \\ 2 & 12 \end{bmatrix}$$

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