

Student Name: _____

Score: _____

Subtraction of matrices

Sheet 5

Subtract the following matrices:

$$\begin{bmatrix} 5 & 3 & -6 \\ -1 & 8 & 11 \end{bmatrix} - \begin{bmatrix} 12 & 1 & 13 \\ -7 & -8 & 4 \end{bmatrix} =$$

$$\begin{bmatrix} 26 & 11 \\ -17 & 38 \\ 5 & 6 \end{bmatrix} - \begin{bmatrix} 14 & 3 \\ -2 & 32 \\ 7 & 2 \end{bmatrix} =$$

$$\begin{bmatrix} 8 & -13 \\ -5 & 21 \end{bmatrix} - \begin{bmatrix} -14 & 6 \\ 12 & 8 \end{bmatrix} =$$

$$[12 \ 33 \ -7] - [5 \ 4 \ -2]$$

$$\begin{bmatrix} 3 & 7 & 5 \\ -4 & 12 & 8 \\ 17 & 28 & -2 \end{bmatrix} - \begin{bmatrix} 12 & 3 & 1 \\ -8 & 15 & 24 \\ 18 & 11 & 3 \end{bmatrix} =$$

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Answer key

Subtraction of matrices

Sheet 5

$$\begin{bmatrix} 5 & 3 & -6 \\ -1 & 8 & 11 \end{bmatrix} - \begin{bmatrix} 12 & 1 & 13 \\ -7 & -8 & 4 \end{bmatrix} = \begin{bmatrix} -7 & 2 & -19 \\ 6 & 16 & 7 \end{bmatrix}$$

$$\begin{bmatrix} 26 & 11 \\ -17 & 38 \\ 5 & 6 \end{bmatrix} - \begin{bmatrix} 14 & 3 \\ -2 & 32 \\ 7 & 2 \end{bmatrix} = \begin{bmatrix} 12 & 8 \\ -15 & 6 \\ -2 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 8 & -13 \\ -5 & 21 \end{bmatrix} - \begin{bmatrix} -14 & 6 \\ 12 & 8 \end{bmatrix} = \begin{bmatrix} 22 & -19 \\ -17 & 13 \end{bmatrix}$$

$$\begin{bmatrix} 12 & 33 & -7 \\ 5 & 4 & -2 \end{bmatrix}$$

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$$\begin{bmatrix} 3 & 7 & 5 \\ -4 & 12 & 8 \\ 17 & 28 & -2 \end{bmatrix} - \begin{bmatrix} 12 & 3 & 1 \\ -8 & 15 & 24 \\ 18 & 11 & 3 \end{bmatrix} = \begin{bmatrix} -9 & 4 & 4 \\ 4 & -3 & -16 \\ -1 & 17 & -5 \end{bmatrix}$$