

Student Name: _____

Score: _____

Subtraction of matrices

Sheet 2

Subtract the following matrices:

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

$$\begin{bmatrix} 3 & -5 \\ 12 & 7 \end{bmatrix} - \begin{bmatrix} 7 & 3 \\ 11 & 14 \end{bmatrix} =$$

$$\begin{bmatrix} 8 & 41 & -3 \\ -15 & 7 & -2 \\ 1 & 3 & 6 \end{bmatrix} - \begin{bmatrix} 11 & 2 & 1 \\ 1 & -1 & 1 \\ 12 & 0 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 21 & -12 \\ -3 & 5 \end{bmatrix} - \begin{bmatrix} -1 & -3 \\ 8 & -19 \end{bmatrix} =$$

$$\begin{bmatrix} 19 & 23 & 14 \\ 17 & 8 & -11 \\ 33 & 12 & 15 \end{bmatrix} - \begin{bmatrix} 8 & 9 & 10 \\ 15 & 12 & -17 \\ 29 & 11 & 40 \end{bmatrix} =$$

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Answer key

Subtraction of matrices

Sheet 2

$$\begin{bmatrix} 1 & 6 & -7 \\ -4 & 2 & 5 \\ 9 & 8 & 3 \end{bmatrix} - \begin{bmatrix} 2 & -5 & 6 \\ 3 & 1 & 4 \\ 9 & 7 & -8 \end{bmatrix} = \begin{bmatrix} -1 & 11 & -13 \\ -7 & 1 & 1 \\ 0 & 1 & 11 \end{bmatrix}$$

$$\begin{bmatrix} 3 & -5 \\ 12 & 7 \end{bmatrix} - \begin{bmatrix} 7 & 3 \\ 11 & 14 \end{bmatrix} = \begin{bmatrix} -4 & -8 \\ 1 & -7 \end{bmatrix}$$

$$\begin{bmatrix} 8 & 41 & -3 \\ -15 & 7 & -2 \\ 1 & 3 & 6 \end{bmatrix} - \begin{bmatrix} 11 & 2 & 1 \\ 1 & -1 & 1 \\ 12 & 0 & 0 \end{bmatrix} = \begin{bmatrix} -3 & 39 & -4 \\ -16 & 8 & -3 \\ -11 & 3 & 6 \end{bmatrix}$$

$$\begin{bmatrix} 21 & -12 \\ -3 & 5 \end{bmatrix} - \begin{bmatrix} -1 & -3 \\ 8 & -19 \end{bmatrix} = \begin{bmatrix} 22 & -9 \\ -11 & 24 \end{bmatrix}$$

$$\begin{bmatrix} 19 & 23 & 14 \\ 17 & 8 & -11 \\ 33 & 12 & 15 \end{bmatrix} - \begin{bmatrix} 8 & 9 & 11 \\ 15 & 12 & -17 \\ 29 & 11 & 40 \end{bmatrix} = \begin{bmatrix} 11 & 14 & 3 \\ 2 & -4 & 6 \\ 4 & 1 & -25 \end{bmatrix}$$

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