

Student Name: _____

Score: _____

Subtraction of matrices

Sheet 9

Subtract the following matrices:

$$\begin{bmatrix} 7 & 43 \\ 6 & -1 \\ 8 & -4 \end{bmatrix} - \begin{bmatrix} 2 & 13 \\ 21 & 8 \\ -2 & 6 \end{bmatrix} - \begin{bmatrix} -8 & 31 \\ 5 & 1 \\ -11 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 3 & 12 \\ -11 & 5 \end{bmatrix} - \begin{bmatrix} 17 & -3 \\ 25 & 17 \end{bmatrix} - \begin{bmatrix} -35 & 21 \\ 8 & -4 \end{bmatrix} =$$

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

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} - \begin{bmatrix} 7 & 12 \\ -38 & 13 \end{bmatrix} - \begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix} =$$

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Answer key

Subtraction of matrices

Sheet 9

$$\begin{bmatrix} 13 & -1 \\ -20 & -10 \\ 21 & -11 \end{bmatrix}$$

$$\begin{bmatrix} 21 & -6 \\ -44 & -8 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -3 & -6 \\ -9 & -8 & -8 \end{bmatrix}$$

$$\begin{bmatrix} -6 & -11 \\ 39 & -12 \end{bmatrix}$$