

Student Name: _____

Score: _____

Subtraction of matrices

Sheet 6

Subtract the following matrices:

$$\begin{bmatrix} 7 & 9 & 11 \\ 21 & -13 & 6 \end{bmatrix} - \begin{bmatrix} 4 & -11 & 7 \\ 33 & -4 & 2 \end{bmatrix} =$$

$$\begin{bmatrix} 7 & 8 \\ -9 & 12 \\ -13 & 5 \end{bmatrix} - \begin{bmatrix} -6 & 4 \\ 3 & 26 \\ -1 & -11 \end{bmatrix} =$$

$$\begin{bmatrix} 27 \\ 36 \end{bmatrix} - \begin{bmatrix} -4 \\ 7 \end{bmatrix} =$$

$$\begin{bmatrix} 9 & 23 & 8 \\ 12 & 17 & 4 \end{bmatrix} - \begin{bmatrix} 12 & 17 & 4 \end{bmatrix} =$$

$$\begin{bmatrix} \frac{-4}{3} \\ 11 \\ 26 \end{bmatrix} - \begin{bmatrix} \frac{5}{3} \\ -18 \\ 11 \end{bmatrix} =$$

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Answer key

Subtraction of matrices

Sheet 6

$$\begin{bmatrix} 7 & 9 & 11 \\ 21 & -13 & 6 \end{bmatrix} - \begin{bmatrix} 4 & -11 & 7 \\ 33 & -4 & 2 \end{bmatrix} = \begin{bmatrix} 3 & 20 & 4 \\ -12 & -9 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 7 & 8 \\ -9 & 12 \\ -13 & 5 \end{bmatrix} - \begin{bmatrix} -6 & 4 \\ 3 & 26 \\ -1 & -11 \end{bmatrix} = \begin{bmatrix} 13 & 4 \\ -12 & -14 \\ -12 & 16 \end{bmatrix}$$

$$\begin{bmatrix} 27 \\ 36 \end{bmatrix} - \begin{bmatrix} -4 \\ 7 \end{bmatrix} = \begin{bmatrix} 31 \\ 29 \end{bmatrix}$$

$$\begin{bmatrix} 9 & 23 & 8 \end{bmatrix} - \begin{bmatrix} 12 & 17 & 4 \end{bmatrix} =$$

$$\begin{bmatrix} \frac{-4}{3} \\ 11 \\ 26 \end{bmatrix} - \begin{bmatrix} \frac{5}{3} \\ -18 \\ 11 \end{bmatrix} = \begin{bmatrix} -3 \\ 29 \\ 15 \end{bmatrix}$$

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