

Student Name: _____

Score: _____

Addition and Subtraction of Matrices

Sheet 5

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

$$\begin{bmatrix} 4 & -9 \\ 12 & -34 \\ 5 & 2 \end{bmatrix} - \begin{bmatrix} 6 & -11 \\ 3 & -5 \\ 2 & -8 \end{bmatrix} =$$

$$\begin{bmatrix} 16 & -4 \\ -38 & 14 \end{bmatrix} + \begin{bmatrix} 9 & -6 \\ 5 & 2 \end{bmatrix} =$$

$$[-13 \ 18 \ 12] + [34 \ -3 \ 9] =$$

$$\begin{bmatrix} 2 & -5 & 9 \\ 4 & -7 & 11 \\ -6 & 3 & -17 \end{bmatrix} - \begin{bmatrix} 3 & 4 & -5 \\ 13 & 2 & 5 \\ 6 & -8 & 1 \end{bmatrix} =$$

Student Name: _____

Score: _____

Answer key

Addition and Subtraction of Matrices

Sheet 5

$$\begin{bmatrix} 3 & 4 & 8 \\ 12 & 6 & -9 \end{bmatrix} + \begin{bmatrix} 11 & 6 & 3 \\ -16 & 7 & 5 \end{bmatrix} = \begin{bmatrix} 20 & 8 & -11 \\ 18 & 19 & -2 \end{bmatrix}$$

$$\begin{bmatrix} 4 & -9 \\ 12 & -34 \\ 5 & 2 \end{bmatrix} - \begin{bmatrix} 6 & -11 \\ 3 & -5 \\ 2 & -8 \end{bmatrix} = \begin{bmatrix} 7 & -6 \\ -7 & 6 \\ 10 & 8 \end{bmatrix}$$

$$\begin{bmatrix} 16 & -4 \\ -38 & 14 \end{bmatrix} + \begin{bmatrix} 9 & -6 \\ 5 & 2 \end{bmatrix} = \begin{bmatrix} 25 & -10 \\ -33 & 16 \end{bmatrix}$$

$$[-13 \ 18 \ 12] + [34 \ -3 \ 9] = [21 \ 15 \ 21]$$

$$\begin{bmatrix} 2 & -5 & 9 \\ 4 & -7 & 11 \\ -6 & 3 & -17 \end{bmatrix} - \begin{bmatrix} 3 & 4 & -5 \\ 13 & 2 & 5 \\ 6 & -8 & 1 \end{bmatrix} = \begin{bmatrix} -1 & -9 & 14 \\ -9 & -9 & 6 \\ -12 & 11 & -18 \end{bmatrix}$$