

Addition and Subtraction of Matrices

$$\begin{bmatrix} 3 & 5 \\ 9 & 12 \end{bmatrix} - \begin{bmatrix} 21 & 36 \\ -5 & 2 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ 5 & -7 \end{bmatrix} =$$

$$\begin{bmatrix} 2 & 5 & -7 & 13 \\ 20 & 3 & 3 & 5 \\ 12 & 36 & 18 & 5 \end{bmatrix} + \begin{bmatrix} 9 & 7 & 5 & 12 \\ 5 & 4 & -1 & -3 \end{bmatrix}$$

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$$\begin{bmatrix} -8 & 7 & 6 \\ -4 & 13 & 11 \\ 17 & 2 & -1 \end{bmatrix} - \begin{bmatrix} 5 & 4 & 2 \\ 2 & 8 & 5 \\ 6 & 6 & 7 \end{bmatrix} + \begin{bmatrix} 5 & 4 & 8 \\ -4 & 28 & -5 \end{bmatrix} =$$

Student Name: _____

Score: _____

Answer key

Addition and Subtraction of Matrices

Sheet 10

$$\begin{bmatrix} 3 & 5 \\ 9 & 12 \end{bmatrix} - \begin{bmatrix} 21 & 36 \\ -5 & 2 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ 5 & -7 \end{bmatrix} = \begin{bmatrix} -17 & -28 \\ 19 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 5 & -7 & 13 \\ 20 & 3 & 3 & 5 \\ 12 & 36 & 18 & 5 \end{bmatrix} + \begin{bmatrix} 9 & 28 & 34 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix} = \begin{bmatrix} -1 & 28 \\ 4 & 1 \\ 31 & 17 \end{bmatrix}$$

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

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$$\begin{bmatrix} -8 & 7 & 6 \\ -4 & 13 & 11 \\ 17 & 2 & -1 \end{bmatrix} - \begin{bmatrix} 5 & 4 & -2 \\ 2 & 8 & 5 \\ 6 & 6 & 7 \end{bmatrix} + \begin{bmatrix} 3 & -2 & 1 \\ 5 & 4 & 8 \\ -4 & 28 & -5 \end{bmatrix} = \begin{bmatrix} -10 & 1 & 9 \\ -1 & 9 & 14 \\ 7 & 24 & -13 \end{bmatrix}$$