

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

## Addition and Subtraction of Matrices

Sheet 3

$$\text{Let } A = \begin{bmatrix} 5 & 4 & -3 \\ -8 & 19 & 12 \\ 6 & -1 & 8 \end{bmatrix} \text{ and } B = \begin{bmatrix} 2 & 3 & -9 \\ 12 & 34 & -7 \\ 1 & -5 & 7 \end{bmatrix}. \text{ Find } A-B.$$

$$\text{Let } A = \begin{bmatrix} 16 & 35 \\ -10 & 18 \end{bmatrix} \text{ and } B =$$

$$\text{Let } A = \begin{bmatrix} -7 & 4 & 12 \\ 8 & -16 & 5 \\ 12 & -4 & 9 \end{bmatrix} \text{ and}$$

$$\text{Let } A = \begin{bmatrix} 6 & 12 & -5 \\ -2 & 8 & 6 \\ 4 & 9 & -11 \end{bmatrix} \text{ and } B = \begin{bmatrix} 12 & 7 & 31 \\ 3 & 9 & 4 \\ 20 & 5 & -8 \end{bmatrix}. \text{ Find } A+B.$$

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Answer key

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$$\begin{bmatrix} 3 & 1 & 6 \\ -20 & -15 & 19 \\ 5 & 4 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 11 & 39 \\ -4 & 27 \end{bmatrix}$$

$$\begin{bmatrix} -5 & -5 & 25 \\ 25 & -12 & 28 \\ 53 & 1 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 18 & 19 & 26 \\ 1 & 17 & 10 \\ 24 & 14 & -19 \end{bmatrix}$$

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