

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

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

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Basic Matrix Operations

Simplify. Write undefined if the expression isn't defined.

$$1) \quad 2 \begin{bmatrix} 4 & 3 \\ -4 & -1 \end{bmatrix} - 4 \begin{bmatrix} 6 & 3 \\ 2 & 0 \end{bmatrix}$$

$$2) \quad \begin{bmatrix} -1 & 6 \\ 2 & 2 \\ 1 & 4 \end{bmatrix} + \begin{bmatrix} 5 & -3 & 4 \\ -3 & 0 & 1 \end{bmatrix}$$

$$3) \quad 2 \begin{bmatrix} 4 & 3 & 1 \\ -2 & -1 & -6 \end{bmatrix}$$



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Simplify. Write undefined if the expression isn't defined.

$$4) \begin{bmatrix} 0 \\ 3 \\ 4 \\ -5 \end{bmatrix} + \begin{bmatrix} 4 & 0 & -5 & 5 \end{bmatrix} + \begin{bmatrix} -4 \\ -4 \\ -6 \\ -2 \end{bmatrix}$$

$$5) 3 \left\{ \begin{bmatrix} -3 & 3 \\ -3 & -1 \end{bmatrix} + \begin{bmatrix} 2 & 3 \\ 2 & 0 \end{bmatrix} \right\}$$

$$6) \begin{bmatrix} 2 & -2 & -4 & 0 \end{bmatrix} + \begin{bmatrix} 5 & 0 & 3 & -5 \end{bmatrix} + \begin{bmatrix} -1 & -2 & 0 & 1 \end{bmatrix}$$



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Simplify. Write undefined if the expression isn't defined.

$$1) \quad 2 \begin{bmatrix} 4 & 3 \\ -4 & -1 \end{bmatrix} - 4 \begin{bmatrix} 6 & 3 \\ 2 & 0 \end{bmatrix}$$

$$\begin{bmatrix} -16 & -6 \\ -16 & -2 \end{bmatrix}$$

$$2) \quad \begin{bmatrix} -1 & 6 \\ 2 & 2 \\ 1 & 4 \end{bmatrix} + \begin{bmatrix} 5 & -3 & 4 \\ -3 & 0 & 1 \end{bmatrix}$$

Undefined

$$3) \quad 2 \begin{bmatrix} 4 & 3 & 1 \\ -2 & -1 & -6 \end{bmatrix}$$

$$\begin{bmatrix} 8 & 6 & 2 \\ -4 & -2 & -12 \end{bmatrix}$$



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## Basic Matrix Operations

Simplify. Write undefined if the expression isn't defined.

$$4) \begin{bmatrix} 0 \\ 3 \\ 4 \\ -5 \end{bmatrix} + \begin{bmatrix} 4 & 0 & -5 & 5 \end{bmatrix} + \begin{bmatrix} -4 \\ -4 \\ -6 \\ -2 \end{bmatrix}$$

Undefined

$$5) 3 \left\{ \begin{bmatrix} -3 & 3 \\ -3 & -1 \end{bmatrix} + \begin{bmatrix} 2 & 3 \\ 2 & 0 \end{bmatrix} \right\}$$

$$\begin{bmatrix} -3 & 18 \\ -3 & -3 \end{bmatrix}$$

$$6) \begin{bmatrix} 2 & -2 & -4 & 0 \end{bmatrix} + \begin{bmatrix} 5 & 0 & 3 & -5 \end{bmatrix} + \begin{bmatrix} -1 & -2 & 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 6 & -4 & -1 & -4 \end{bmatrix}$$

