

Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

1) $2 \left\{ \begin{bmatrix} -1 & -6 \end{bmatrix} - \begin{bmatrix} 0 & -6 \end{bmatrix} \right\}$

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

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



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

$$4) \quad 6 \begin{bmatrix} 3 \\ 5 \end{bmatrix} + 4 \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

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

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



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

1) $2 \left\{ \begin{bmatrix} -1 & -6 \end{bmatrix} - \begin{bmatrix} 0 & -6 \end{bmatrix} \right\}$

$$\begin{bmatrix} -2 & 0 \end{bmatrix}$$

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

$$\begin{bmatrix} 3 & 5 \\ 1 & -1 \\ -1 & 0 \end{bmatrix}$$

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

Undefined



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

$$\begin{bmatrix} 18 \\ 30 \end{bmatrix}$$

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

$$\begin{bmatrix} 4 & -2 & 2 \\ 0 & 8 & -2 \end{bmatrix}$$

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

Undefined

