

Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

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

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



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

$$5) \quad 2 \left\{ \begin{bmatrix} -4s + 5 & -2s & 6s \end{bmatrix} + \begin{bmatrix} 4n + 2 & -6s + 6 & -4n + 2 \end{bmatrix} \right\}$$

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



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

$$\begin{bmatrix} -12k & 18 \\ -12k + 3 & -3 \\ -30k - 24 & -3k \end{bmatrix}$$

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

$$\begin{bmatrix} 3b + 8 & b - 8 \end{bmatrix}$$

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

$$\begin{bmatrix} 15g - 2 & 9 & g - 1 \\ 10 & 6g + 5h - 10 & -6h - 2 \end{bmatrix}$$



Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

$$\begin{bmatrix} -16q + 15 \\ 6q + 9 \end{bmatrix}$$

$$5) \quad 2 \left\{ \begin{bmatrix} -4s + 5 & -2s & 6s \end{bmatrix} + \begin{bmatrix} 4n + 2 & -6s + 6 & -4n + 2 \end{bmatrix} \right\}$$

$$\begin{bmatrix} 8n - 8s + 14 & -16s + 12 & -8n + 12s + 4 \end{bmatrix}$$

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

$$\begin{bmatrix} 3r \\ 5 \\ 5 \\ -8 \end{bmatrix}$$

