

Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

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

$$3) 3 \begin{bmatrix} -g - 3 \\ -2 \\ 6g - 4 \\ -1 \end{bmatrix} + 6 \begin{bmatrix} -1 \\ 2 \\ 4g + 3 \\ -6 \end{bmatrix}$$



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Basic Matrix Operations

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

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

$$5) 4 \begin{bmatrix} -4 & -6r + 6 & -6 & -5r \end{bmatrix}$$

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



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

$$\begin{bmatrix} 7h + 8 \\ 6h - 3 \end{bmatrix}$$

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

$$\begin{bmatrix} 3n + d + 6 & 5d + 4 & 4n - 6d - 1 \end{bmatrix}$$

$$3) 3 \begin{bmatrix} -g - 3 \\ -2 \\ 6g - 4 \\ -1 \end{bmatrix} + 6 \begin{bmatrix} -1 \\ 2 \\ 4g + 3 \\ -6 \end{bmatrix}$$

$$\begin{bmatrix} -3g - 15 \\ 6 \\ 42g + 6 \\ -39 \end{bmatrix}$$



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Basic Matrix Operations

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

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

$$\begin{bmatrix} -4 & 6p - 2 & -2p + 9 & 3p - 6 \end{bmatrix}$$

$$5) 4 \begin{bmatrix} -4 & -6r + 6 & -6 & -5r \end{bmatrix}$$

$$\begin{bmatrix} -16 & -24r + 24 & -24 & -20r \end{bmatrix}$$

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

$$\begin{bmatrix} -4y + 4 & -14 \\ -12y - 2 & -2 \\ 8y - 16 & 4y - 16 \end{bmatrix}$$

