

Name : _____

Score : _____

Teacher : _____

Date : _____

Mixed Matrix Operations

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

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

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

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



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Mixed Matrix Operations

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

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

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

$$6) \begin{bmatrix} -5 \\ -5 \end{bmatrix} \cdot \begin{bmatrix} -2 & -1 \end{bmatrix}$$



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

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

$$\begin{bmatrix} 10 & -16 & 20 \end{bmatrix}$$

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

$$\begin{bmatrix} -6 & -21 & -6 \\ 4 & 9 & -2 \\ -2 & -27 & -26 \\ 0 & 10 & 12 \end{bmatrix}$$

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

$$\begin{bmatrix} 17 \\ -8 \end{bmatrix}$$



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Mixed Matrix Operations

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

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

$$\begin{bmatrix} -12 & -18 & -6 \\ -24 & -16 & -37 \\ -20 & -34 & -5 \\ 12 & 10 & 16 \end{bmatrix}$$

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

$$\begin{bmatrix} -1 \\ 0 \end{bmatrix}$$

$$6) \begin{bmatrix} -5 \\ -5 \end{bmatrix} \cdot \begin{bmatrix} -2 & -1 \end{bmatrix}$$

$$\begin{bmatrix} 10 & 5 \\ 10 & 5 \end{bmatrix}$$

