

Name : _____

Score : _____

Teacher : _____

Date : _____

Basic Matrix Operations

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

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

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

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



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

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

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

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



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

Undefined

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

$$\begin{bmatrix} -s - 30 & -13s - 48 \end{bmatrix}$$

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

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Basic Matrix Operations

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

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

$$\begin{bmatrix} 6p + 6h & 7h + 4 & 2p + 4h - 1 \end{bmatrix}$$

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

$$\begin{bmatrix} 6g + 8 & 2 & 6g - 3 \\ 4 & -3g - 4d - 1 & 2d - 3 \end{bmatrix}$$

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

$$\begin{bmatrix} 20r + 37 & 8c + 5 & 25r + 8c + 30 \end{bmatrix}$$

