

Matrices

Name: _____

Date: _____

Basic Matrix Operations

1)
$$\begin{bmatrix} -3b & 4b & 6c^2 & 3b & 4 \end{bmatrix}$$
$$\begin{bmatrix} -12b^2 & -18bc^2 & -9b^2 & -12b \end{bmatrix}$$

2)
$$\begin{bmatrix} -2x - 2 & -4x & -3y \end{bmatrix} - \begin{bmatrix} 2y & -3 & -4x \end{bmatrix}$$

3)
$$\begin{bmatrix} -2a & 2a & 3b^2 & 3a & 2 \end{bmatrix}$$

4)
$$\begin{bmatrix} -8m - 4 & -3m & -10n \end{bmatrix} - \begin{bmatrix} 6n & -10 & -4m \end{bmatrix}$$

5)
$$10 \begin{bmatrix} 4 & 6 & 10 & -4 \end{bmatrix} - \begin{bmatrix} 20 & 70 & -3 & -7 \end{bmatrix}$$

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

7)
$$-10 \left(\begin{bmatrix} 4 & -2 & 3 \end{bmatrix} + \begin{bmatrix} 2 & 1 & 7 \end{bmatrix} \right)$$

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$$\begin{array}{l} 1) \quad -3b[4b \quad 6c^2 \quad 3b \quad 4] \\ \quad \quad [-12b^2 \quad -18bc^2 \quad -9b^2 \quad -12b] \\ \hline \end{array}$$

$$\begin{array}{l} 2) \quad [-2x - 2 \quad -4x \quad -3y] - [2y \quad -3 \quad -4x] \\ \quad \quad [-2x - 2 - 2y \quad -4x + 3 \quad -3y + 4x] \\ \hline \end{array}$$

$$\begin{array}{l} 3) \quad -2a[2a \quad 3b^2 \quad 3a \quad 2] \\ \quad \quad [-4a^2 \quad -6ab^2 \quad -6a^2 \quad -4a] \\ \hline \end{array}$$

$$\begin{array}{l} 4) \quad [-8m - 4 \quad -3m \quad -10n] - [6n \quad -10 \quad -4m] \\ \quad \quad [-8m - 4 - 6n \quad -3m + 10 \quad -10n + 4m] \\ \hline \end{array}$$

$$\begin{array}{l} 5) \quad 10[4 \quad 6 \quad 10 \quad -4] - [20 \quad 70 \quad -3 \quad -7] \\ \quad \quad [20 \quad -10 \quad 103 \quad -33] \\ \hline \end{array}$$

$$\begin{array}{l} 6) \quad -3[4 \quad -5 \quad -2 \quad 1] \\ \quad \quad [-12 \quad 15 \quad 6 \quad -3] \\ \hline \end{array}$$

$$\begin{array}{l} 7) \quad -10([4 \quad -2 \quad 3] + [2 \quad 1 \quad 7]) \\ \quad \quad [-60 \quad 10 \quad -100] \\ \hline \end{array}$$