

Matrices

Name: _____

Date: _____

Basic Matrix Operations

1) $-4x[3x \ 10y^2 \ 2x \ 10]$

2) $-6([3 \ -4 \ 6] + [3 \ 2 \ 6])$

3) $[-2x - 2 \ -4x \ -3y] - [2y \ -3 \ -4x]$

4) $-5p[4p \ 10q^2 \ 6p \ 5]$

5) $[-8m - 4 \ -3m \ -10n] - [6n \ -10 \ -4m]$

6) $-2a[2a \ 3b^2 \ 3a \ 2]$

7) $-3b[4b \ 6c^2 \ 3b \ 4]$

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Basic Matrix Operations

$$\begin{aligned} 1) \quad & -4x[3x \quad 10y^2 \quad 2x \quad 10] \\ & [-12x^2 \quad -40xy^2 \quad -8x^2 \quad -40x] \end{aligned}$$

$$\begin{aligned} 2) \quad & -6([3 \quad -4 \quad 6] + [3 \quad 2 \quad 6]) \\ & [-36 \quad 12 \quad -72] \end{aligned}$$

$$\begin{aligned} 3) \quad & [-2x - 2 \quad -4x \quad -3y] - [2y \quad -3 \quad -4x] \\ & [-2x - 2 - 2y \quad -4x + 3 \quad -3y + 4x] \end{aligned}$$

$$\begin{aligned} 4) \quad & -5p[4p \quad 10q^2 \quad 6p \quad 5] \\ & [-20p^2 \quad -50pq^2 \quad -30p^2 \quad -25p] \end{aligned}$$

$$\begin{aligned} 5) \quad & [-8m - 4 \quad -3m \quad -10n] - [6n \quad -10 \quad -4m] \\ & [-8m - 4 - 6n \quad -3m + 10 \quad -10n + 4m] \end{aligned}$$

$$\begin{aligned} 6) \quad & -2a[2a \quad 3b^2 \quad 3a \quad 2] \\ & [-4a^2 \quad -6ab^2 \quad -6a^2 \quad -4a] \end{aligned}$$

$$\begin{aligned} 7) \quad & -3b[4b \quad 6c^2 \quad 3b \quad 4] \\ & [-12b^2 \quad -18bc^2 \quad -9b^2 \quad -12b] \end{aligned}$$
