Matrix Equations

Name:

Date:

solve each equation.

1) $X - [6 \quad 6 \quad -2] = [4 \quad -9 \quad 9]$

2) $4A = [4 \quad -20 \quad 16]$

3) $\begin{bmatrix} 1 & 4 \\ 0 & 3 \end{bmatrix} \times 4X = \begin{bmatrix} 21 & 36 \\ 28 & 4 \end{bmatrix}$

4) $\begin{bmatrix} 9 \\ 5 \\ -5 \end{bmatrix} = Y - \begin{bmatrix} 7 \\ 2 \\ 3 \end{bmatrix}$

5) $\begin{bmatrix} -1 & 4 \\ -3 & 6 \end{bmatrix} \times X = \begin{bmatrix} -16 \\ -12 \end{bmatrix}$

6) $-3A = [9 \quad -21 \quad 15]$

7) $X \times \begin{bmatrix} 11 & 6 \\ -2 & 6 \end{bmatrix} = \begin{bmatrix} -24 & 33 \\ -4 & 18 \end{bmatrix}$

8) $-5A = [20 \quad 75 \quad -5]$

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Name:

Date:

Matrix Equations

Answers

solve each equation.

1) $X - [6 \quad 6 \quad -2] = [4 \quad -9 \quad 9]$

$X = [10 \quad -3 \quad 7]$

2) $4A = [4 \quad -20 \quad 16]$

$A = [1 \quad -5 \quad 4]$

3) $\begin{bmatrix} 1 & 4 \\ 0 & 3 \end{bmatrix} \times 4X = \begin{bmatrix} 21 & 36 \\ 28 & 4 \end{bmatrix}$

$X = \begin{bmatrix} -\frac{49}{12} & \frac{23}{3} \\ \frac{7}{3} & \frac{1}{3} \end{bmatrix}$

4) $\begin{bmatrix} 9 \\ 5 \\ -5 \end{bmatrix} = Y - \begin{bmatrix} 7 \\ 2 \\ 3 \end{bmatrix}$

$Y = \begin{bmatrix} 16 \\ 7 \\ -2 \end{bmatrix}$

5) $\begin{bmatrix} -1 & 4 \\ -3 & 6 \end{bmatrix} \times X = \begin{bmatrix} -16 \\ -12 \end{bmatrix}$

$X = \begin{bmatrix} -8 \\ -6 \end{bmatrix}$

6) $-3A = [9 \quad -21 \quad 15]$

$A = [-3 \quad 7 \quad -5]$

7) $X \times \begin{bmatrix} 11 & 6 \\ -2 & 6 \end{bmatrix} = \begin{bmatrix} -24 & 33 \\ -4 & 18 \end{bmatrix}$

$X = \begin{bmatrix} -1 & \frac{13}{2} \\ \frac{2}{13} & \frac{37}{13} \end{bmatrix}$

8) $-5A = [20 \quad 75 \quad -5]$

$A = [-4 \quad -15 \quad 1]$