



## Matrix Equations



solve each equation.

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

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

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

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

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



QUIZ ?

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## Matrix Equations

## Answers



solve each equation.

$$1) X - \begin{bmatrix} 6 & 6 & -2 \end{bmatrix} = \begin{bmatrix} 4 & -9 & 9 \end{bmatrix}$$

$$X = \begin{bmatrix} 10 & -3 & 7 \end{bmatrix}$$

$$2) 4A = \begin{bmatrix} 4 & -20 & 16 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & -5 & 4 \end{bmatrix}$$

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

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

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

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

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

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

$$6) -3A = \begin{bmatrix} 9 & -21 & 15 \end{bmatrix}$$

$$A = \begin{bmatrix} -3 & 7 & -5 \end{bmatrix}$$

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

$$X = \begin{bmatrix} -1 & \frac{13}{2} \\ 2 & \frac{37}{6} \\ \frac{13}{13} & \frac{13}{13} \end{bmatrix}$$

$$8) -5A = \begin{bmatrix} 20 & 75 & -5 \end{bmatrix}$$

$$A = \begin{bmatrix} -4 & -15 & 1 \end{bmatrix}$$



QUIZ ?

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