

1) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & -2 \\ -7 & 5 \end{bmatrix} \cdot X = \begin{bmatrix} -2 & 4 \\ 3 & -1 \end{bmatrix}$$

1) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & -2 \\ -7 & 5 \end{bmatrix} \cdot X = \begin{bmatrix} -2 & 4 \\ 3 & -1 \end{bmatrix}$$

1) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & -2 \\ -7 & 5 \end{bmatrix} \cdot X = \begin{bmatrix} -2 & 4 \\ 3 & -1 \end{bmatrix}$$

2) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & 1 \\ 6 & 3 \end{bmatrix} \cdot X = \begin{bmatrix} 1 & 4 & -2 \\ 6 & 0 & -3 \end{bmatrix}$$

2) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & 1 \\ 6 & 3 \end{bmatrix} \cdot X = \begin{bmatrix} 1 & 4 & -2 \\ 6 & 0 & -3 \end{bmatrix}$$

2) Solve the matrix equation for the matrix X using inverse matrices:

$$\begin{bmatrix} 3 & 1 \\ 6 & 3 \end{bmatrix} \cdot X = \begin{bmatrix} 1 & 4 & -2 \\ 6 & 0 & -3 \end{bmatrix}$$

3) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 5x + 3y = 4 \\ 2x + 2y = 8 \end{cases}$$

3) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 5x + 3y = 4 \\ 2x + 2y = 8 \end{cases}$$

3) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 5x + 3y = 4 \\ 2x + 2y = 8 \end{cases}$$

4) Are the following matrices inverses of one another? Show why or why not:

$$A = \begin{pmatrix} 0 & -1 & 2 \\ 1 & 1 & -1 \\ 2 & 0 & 3 \end{pmatrix} \quad B = \begin{pmatrix} 3 & 3 & -1 \\ -5 & -4 & 2 \\ -2 & -2 & -1 \end{pmatrix}$$

4) Are the following matrices inverses of one another? Show why or why not:

$$A = \begin{pmatrix} 0 & -1 & 2 \\ 1 & 1 & -1 \\ 2 & 0 & 3 \end{pmatrix} \quad B = \begin{pmatrix} 3 & 3 & -1 \\ -5 & -4 & 2 \\ -2 & -2 & -1 \end{pmatrix}$$

4) Are the following matrices inverses of one another? Show why or why not:

$$A = \begin{pmatrix} 0 & -1 & 2 \\ 1 & 1 & -1 \\ 2 & 0 & 3 \end{pmatrix} \quad B = \begin{pmatrix} 3 & 3 & -1 \\ -5 & -4 & 2 \\ -2 & -2 & -1 \end{pmatrix}$$

5) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 3x - 2y = 2 \\ 2x - y = 2 \end{cases}$$

5) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 3x - 2y = 2 \\ 2x - y = 2 \end{cases}$$

5) Solve the system for (x, y) using inverse matrices:

$$\begin{cases} 3x - 2y = 2 \\ 2x - y = 2 \end{cases}$$