

2. 1. Form the equation $AX = \begin{bmatrix} 4 \\ 2 \end{bmatrix}$ and $AX = \begin{bmatrix} 4 \\ 2 \end{bmatrix} = 0$ and solve each X using for a 2×1 matrix.

2. Calculate $X = B^{-1} \begin{bmatrix} 4 \\ 2 \end{bmatrix}$

$$AX = 0 \Rightarrow \begin{bmatrix} 4 \\ 2 \end{bmatrix} = 0$$

$$X = B^{-1} \begin{bmatrix} 4 \\ 2 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$$

Example 20: Applying permutation matrix

P is the column matrix $P = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$, P^T is the permutation matrix $P^T = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

a. Show that:

i. pre-multiplying $P^T X$ by P^T changes the matrix X to the matrix $X' = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$

ii. pre-multiplying X by P^T leaves the matrix X unchanged.

b. What can be deduced about P^T from the results in a)?

Explanation:

i. Form the matrix product $P^T X$. To find the first entry in the resulting column matrix note that the 1 of the permutation matrix is in the third column so, all the first row, this yields:

$$1 \times 1 = 1 \text{ and } 0 \times 2 = 0 \text{ and } 0 \times 3 = 0$$

To find the second entry in the resulting column matrix note that the 0 of the permutation matrix is in the second column so all the second row and yields:

ii. Form the matrix product $P^T X$.

b. To know the matrix X unchanged, P^T must be an identity matrix.

Solution:

$$P^T X = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

$$P^T X = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

$$P^T \text{ is the identity matrix } I = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

2. Prove that $\det(P^T) = 1$, that $\det(P) = 1$

$$X = P^{-1}P^T$$

Example 21:

Find a permutation matrix that takes the column matrix $\begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$ to the column matrix $\begin{bmatrix} 2 \\ 1 \\ 4 \\ 3 \end{bmatrix}$

Explanation:

i. We want to move 2 from the fourth place to the first place. Place the 1 in the fourth column of the first row.

ii. We want to move 1 from the third place to the second place. Place the 1 in the third column of the second row.

iii. We want to move 3 from the second place to the third place. Place the 1 in the second column of the third row.

iv. We want to move 4 from the first place to the fourth place. Place the 1 in the first column of the fourth row.

Solution:

$$\begin{bmatrix} 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix} = \begin{bmatrix} 4 \\ 3 \\ 2 \\ 1 \end{bmatrix}$$

Example 22:

A is a permutation matrix $A = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix}$ applied to a 4×1 column matrix X gives

the column matrix $\begin{bmatrix} 3 \\ 4 \\ 2 \\ 1 \end{bmatrix}$. Determine the matrix A .

Solution:

$$AX = \begin{bmatrix} 3 \\ 4 \\ 2 \\ 1 \end{bmatrix}$$

Using your calculator:

$$A = P^{-1} \begin{bmatrix} 3 \\ 4 \\ 2 \\ 1 \end{bmatrix} = P^{-1} \begin{bmatrix} 3 \\ 4 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$$

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