

Therefore, $A^{-1} = \begin{bmatrix} \frac{3}{5} & \frac{1}{5} \\ -\frac{2}{5} & \frac{1}{5} \end{bmatrix}$

2.

$$\begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix}$$

Solution:

Let $A = \begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix}$

As $A = AI = \begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} A$

$$\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} 1 & -1 \\ 0 & 1 \end{bmatrix} A \quad [R_1 \rightarrow R_1 - R_2]$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & -1 \\ -1 & 2 \end{bmatrix} A \quad [R_2 \rightarrow R_2 - R_1]$$

$$A^{-1} = \begin{bmatrix} 1 & -1 \\ -1 & 2 \end{bmatrix}$$

3. $\begin{bmatrix} 1 & 3 \\ 2 & 7 \end{bmatrix}$

Solution:

Let $A = \begin{bmatrix} 1 & 3 \\ 2 & 7 \end{bmatrix}$

As we know, $A = AI$

$$\begin{bmatrix} 1 & 3 \\ 2 & 7 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} A$$

Mathematics Notes For Class 12 Chapter 3 Matrices

Pavitra Gupta



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