

**PYQ-MATRICES & DETERMINANTS (CBSE-2023 & 2024 QUESTIONS)**

**WEIGHTAGE IN CBSE BOARD EXAMINATION: 10 MARKS**

Q.NO.	QUESTIONS
1.	If $A = \begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$ and $B^{-1} = \begin{bmatrix} 3 & -1 & 1 \\ -15 & 6 & -5 \\ 5 & -2 & 2 \end{bmatrix}$ , find $(AB)^{-1}$ .
2.	Solve the following system of equations by matrix method : $x + 2y + 3z = 6$ $2x - y + z = 2$ $3x + 2y - 2z = 3$
3.	If $A = \begin{bmatrix} -3 & -2 & -4 \\ 2 & 1 & 2 \\ 2 & 1 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 2 & 0 \\ -2 & -1 & -2 \\ 0 & -1 & 1 \end{bmatrix}$ , then find $AB$ and use it to solve the following system of equations : $x - 2y = 3$ $2x - y - z = 2$ $-2y + z = 3$
4.	If $f(\alpha) = \begin{bmatrix} \cos \alpha & -\sin \alpha & 0 \\ \sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{bmatrix}$ , then prove that $f(\alpha) \cdot f(-\beta) = f(\alpha - \beta)$
5.	If $A = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 2 & 0 & 3 \end{bmatrix}$ , then show that $A^3 - 6A^2 + 7A + 2I = O$ .
6.	If $A = \begin{bmatrix} 3 & 2 \\ 5 & -7 \end{bmatrix}$ , then find $A^{-1}$ and use it to solve the following system of equations : $3x + 5y = 11$ , $2x - 7y = -3$ .
7.	Find the inverse of the matrix $A = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix}$ . Using the inverse, $A^{-1}$ , solve the system of linear equations $x - y + 2z = 1$ ; $2y - 3z = 1$ ; $3x - 2y + 4z = 3$ .
8.	If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix}$ , then show that $A^3 - 23A - 40I = O$ .

# Matrices And Determinants Problems Board Related

**Daryao Khatri**



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