CLASS XII

Important previous year's board's questions

MATRICES

Q1. For a 2 x 2 matrix, A = [a_{ij}] , whose elements are given by $a_{ij} = \frac{i}{j}$, write the value of $a_{12.}$ (cbse 2011).

Q2. If $\begin{bmatrix} x+y & 1 \\ 2y & 5 \end{bmatrix}$ = $\begin{bmatrix} 7 & 1 \\ 4 & 5 \end{bmatrix}$, find x.

Q3. If A = $\begin{bmatrix} cos\alpha & -sin\alpha \\ sin\alpha & cos\alpha \end{bmatrix}$, then for what value of α is A an identiy matrix. (cbse 2010)

Q4. If a matrix has 5 elements, write all the possible orders it can have. (cbse 2011)

Q5. Construct a 2 x 2 matrix A = [a_{ij}] , whose elements are given by a_{ij} = i + 2j. (cbse (f) 2008)

Q6. IF $\begin{bmatrix} 15 & x+y \\ 2 & y \end{bmatrix}$ = $\begin{bmatrix} 15 & 8 \\ x-y & 3 \end{bmatrix}$, find value of x and y. (cbse 2009 c)

Q7. Find the value of x, if $\begin{bmatrix} 3x+y & -y \\ 2y-x & 3 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 \\ -5 & 3 \end{bmatrix}$.

Q8. Write the value of x – y + z from the following equation. $\begin{bmatrix} x+y+z \\ x+z \\ y+z \end{bmatrix}$ = $\begin{bmatrix} 9 \\ 5 \\ 7 \end{bmatrix}$. (cbse (f) 2011)

Q9. Write the order of the product matrix: $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ [2   3   4].

Q10. If A is a matrix of order 3 x 4 and B is aa matrix of order 4 x 3, find the order of the matrix AB.

Q11. Find AB if: A = $\begin{bmatrix} 2 & 3 & 4 \\ -1 & 2 & -5 \end{bmatrix}$ and B = $\begin{bmatrix} 1 & 2 \\ 3 & -4 \\ -5 & 6 \end{bmatrix}$.

Q12. If A = $\begin{bmatrix} 1 & 0 \\ -1 & 7 \end{bmatrix}$, find the value k so that $A^2 - 8A = kI$.

Q13. If A = $\begin{bmatrix} 1 \\ -4 \\ 3 \end{bmatrix}$, B = [−1   2   1] verify that : (AB)′ = B′ A ' .

Q14. Evaluate: $2\begin{vmatrix} 7 & -2 \\ -10 & 5 \end{vmatrix}$.

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