- Upper triangular matrix and lower to triangular matrix. For such matrices, the determinant is the product of diagonal elements.

is the (matrix with (i,j)th - The transpose of Amxn entry of Asi $(A^T)_{ij} = Aji$

> $A^{T} = \begin{bmatrix} 197 \\ 258 \\ 369 \end{bmatrix}$ det (A) = det (AT) A = [1,2] B 2,5 B 2,8 B

- If A is an nxn sq. with n < 4. Then the minor of the entry is the ith row & jth column is the determinant of the submatrix formed by deleting the ith rows & jth column.

 $M_{H} = \det \begin{bmatrix} a_{22} & a_{23} \\ a_{32} & a_{33} \end{bmatrix}$

- For A3x3

det (A) = a11 × M11 - 042 × M12 + 013 × M13 = a11 x cu + a12 x c12 + a13 x c13

-det (A) = ξ^4 (-1) 1+j anj Mj = ξ^4 anj Cy

- det (A) = 2 iz1 (-1) 1+ j anj Mij = 2 n anj Cij

Must figureoud during कांगांडांठका