Matrices Definition => A system of mn numbers arranged in a gractargular arrange formation along m nows and n columns and bounded by the brackets is called an mxn mature.

A = [1 2 3]

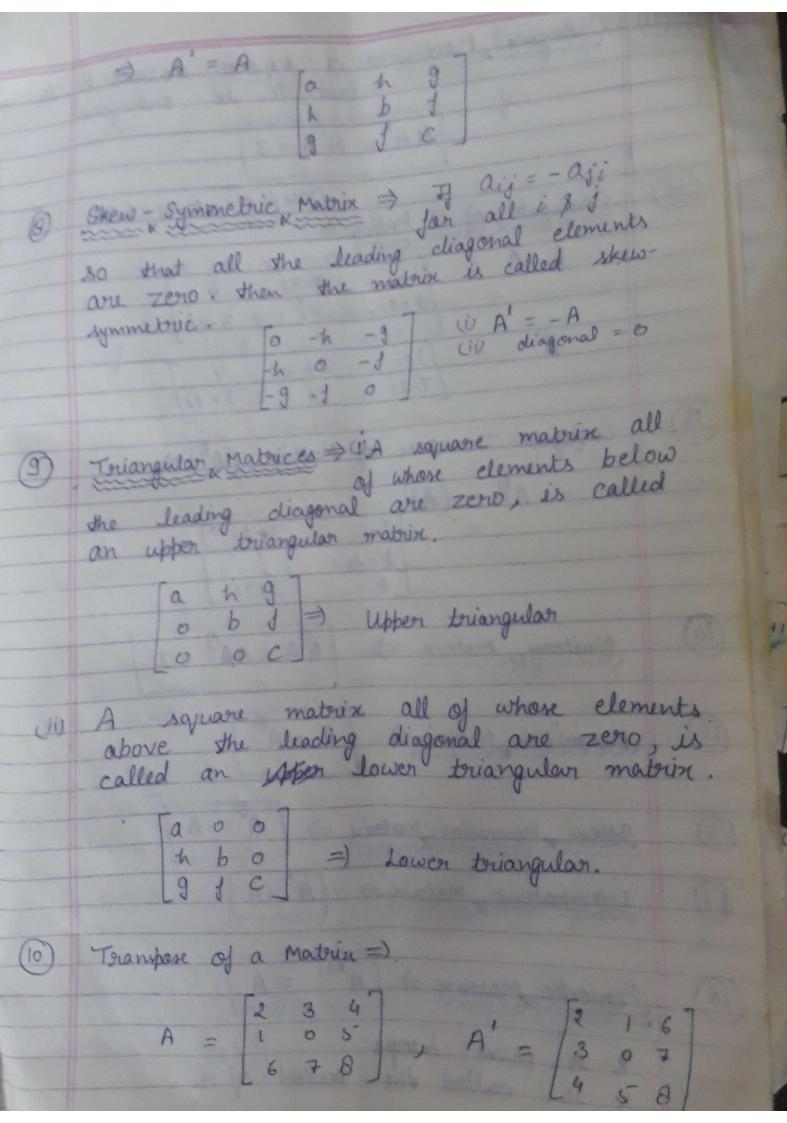
2 3 4

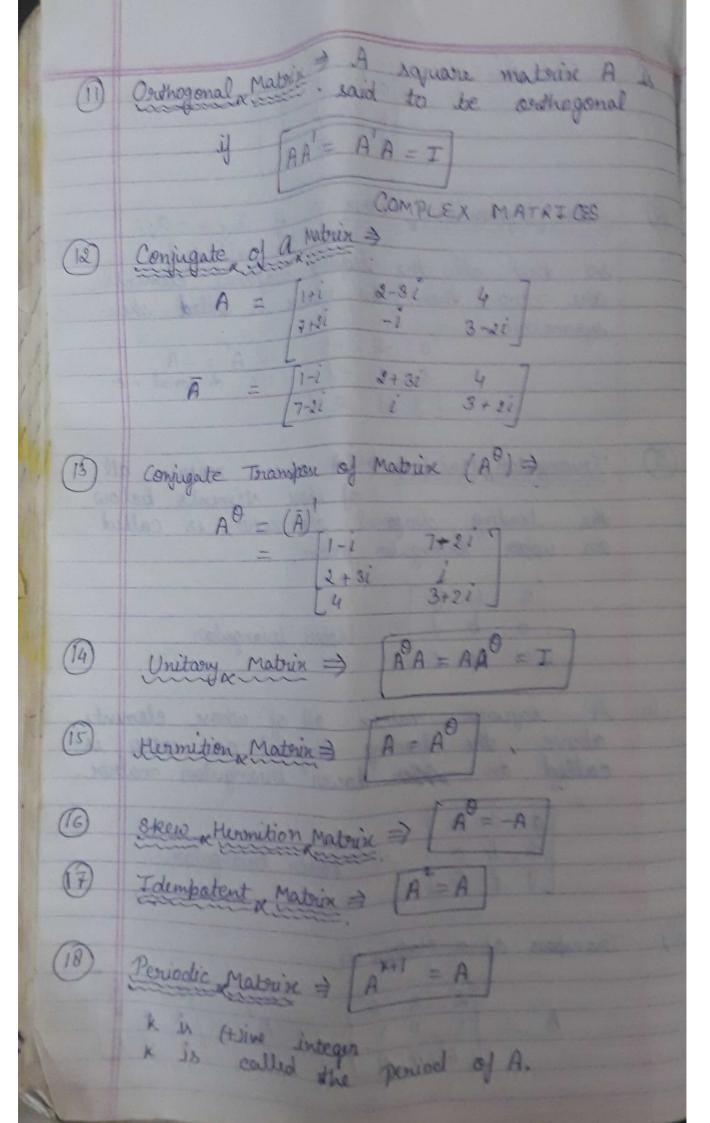
3 4 5 D Row Matrices ⇒ A matrix having a single now is called now matrix Column Matrices > A matrix having a ringle column is called column matrix. Note => Row and column matures

Sometimes called now vector

and column vector 3. 3) Square marin => A matrix having n nows 8 n columns is called a square matrin of order n. A => square matrix The determinant having the same element as the square matrix A is called the determinant of the matrix and is denoted by IAI

The diagonal of this matrix containing the elements 1, 3, 5 is called the leading diagonal or principal diagonal.





A = 0 where 1 (15) Nilpotenta Matrix > C+) ive integer . k is the index of Nilpotent matrix. Inverviens of a Matrix = If A be any matrix, then a matrix B AB = BA = I is called inverse of A. The inverse of a matrix is unique $(AB)^{-1} = B^{-1}A^{-1}$ Di: Find the inverse of 1 1 3 -3 adj $A = \frac{1}{2} \begin{vmatrix} 3 & -3 & -1 & -3 & 4 & -4 \\ -4 & -4 & -2 & -4 & -4 \end{vmatrix}$

