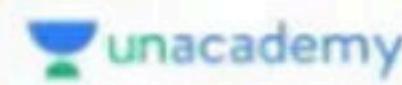


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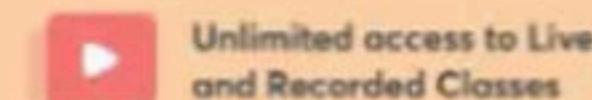
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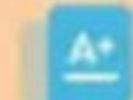
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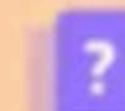
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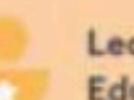
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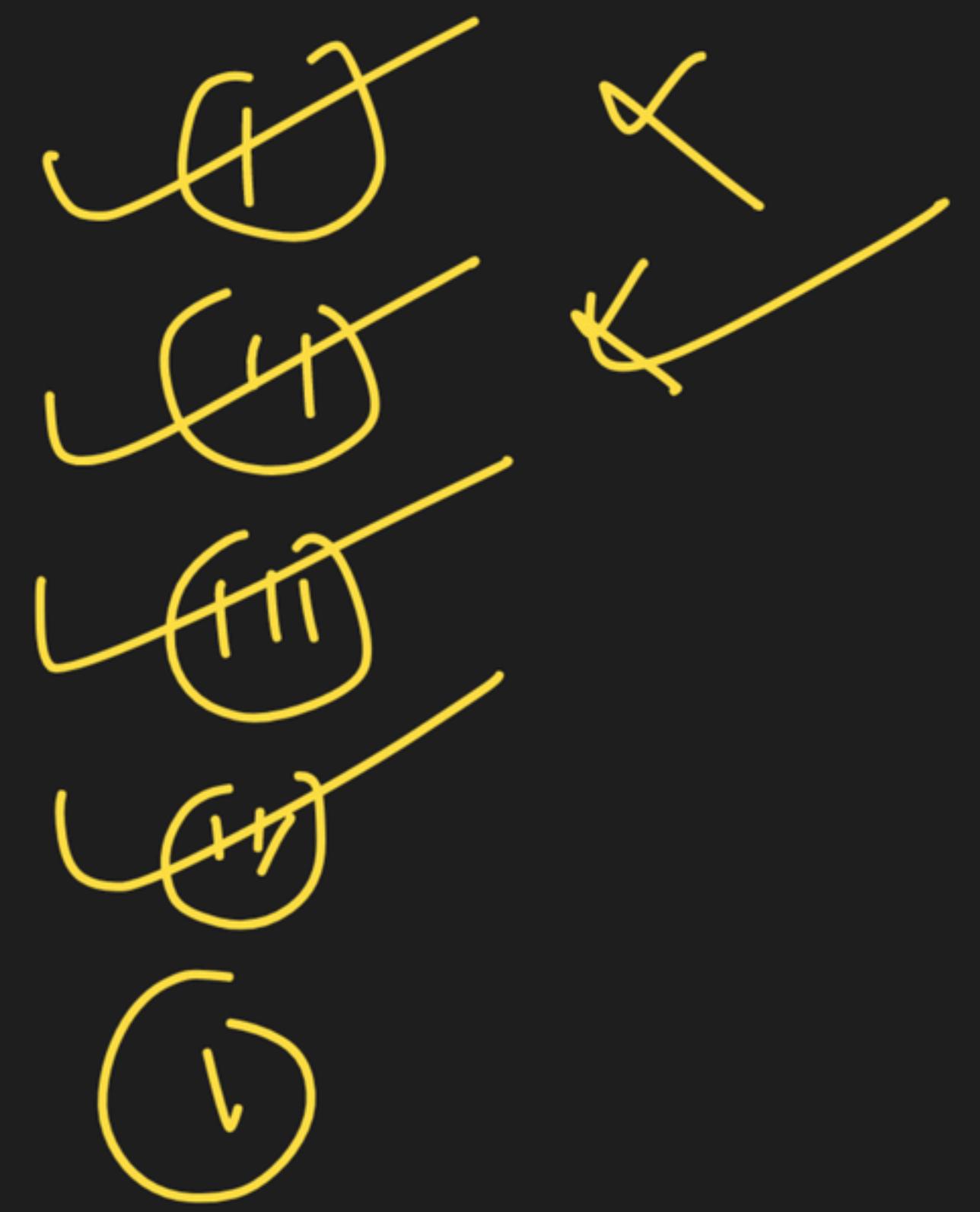
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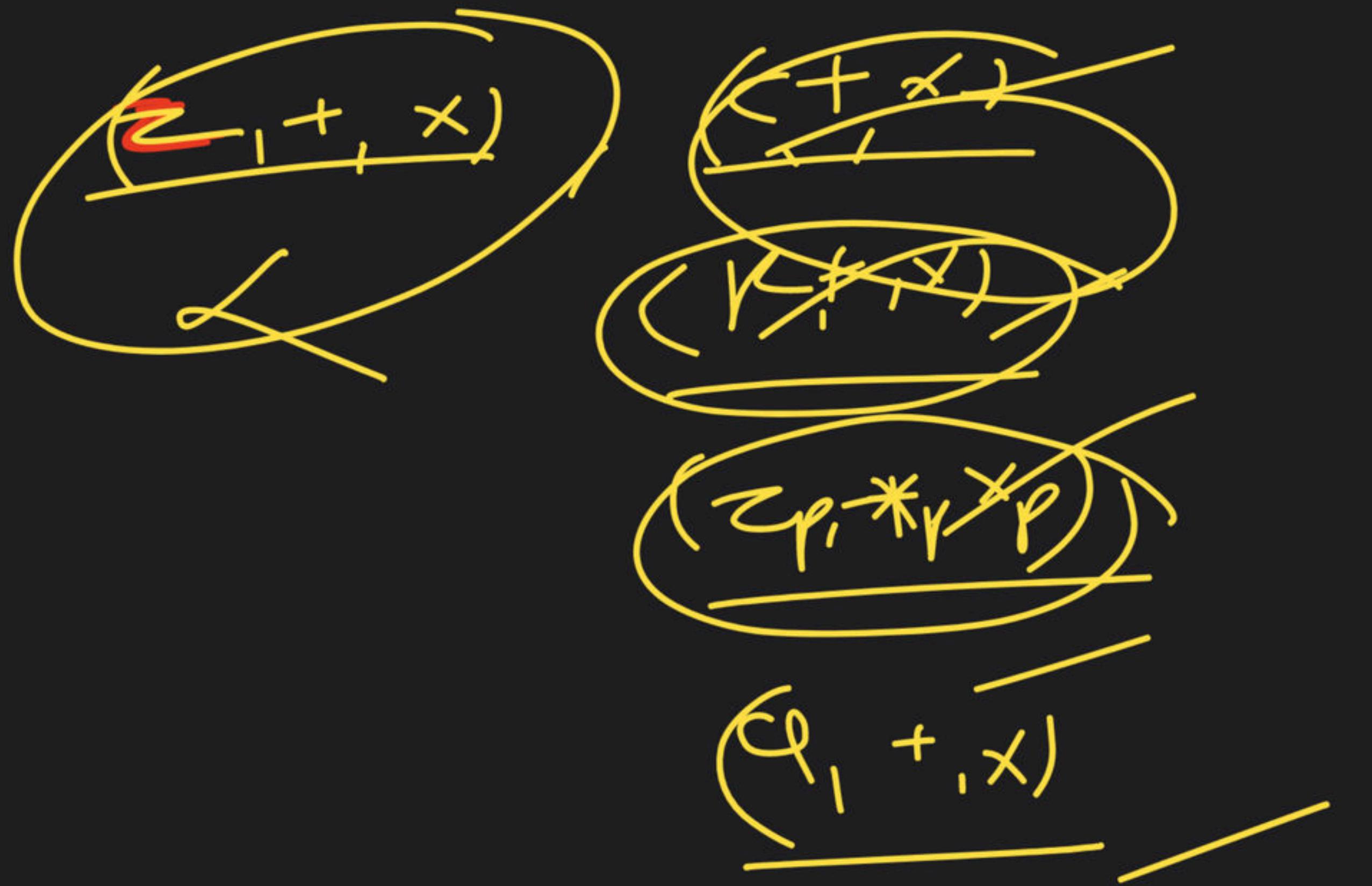
# ~~Matrix and their properties~~

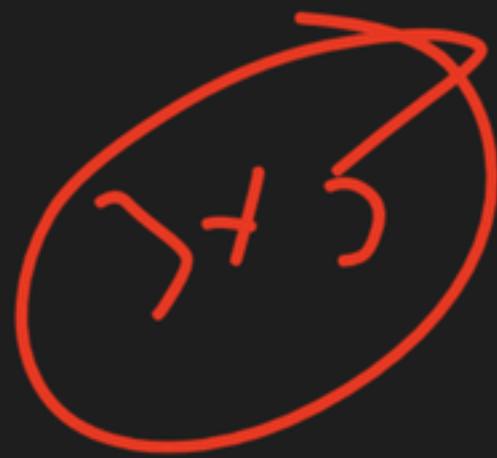
**Definition :** A set of  $m \times n$  numbers arranged in the form of rectangular array consisting of  $m$ -rows and  $n$ -columns is called an  $m \times n$  matrix or matrix of order  $m \times n$  and denoted by  $A = [a_{ij}]_{m \times n}$ .

**Matrix over any field :**  $A = [a_{ij}]_{m \times n}$  is matrix over any field  $F$  if  $a_{ij} \in F$ , for all  $i, j$  and matrix  $A$  is known as  $F$  - matrix.

KG

$$(a_{ij}) = \begin{bmatrix} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{31} & a_{32} & a_{33} & a_{34} \\ a_{41} & a_{42} & a_{43} & a_{44} \end{bmatrix} \quad 4 \times 4$$





## ~~Algebra of matrix :~~

~~RC~~

1. **Equality of two matrix :** If  $A = [a_{ij}]_{m \times n}$  &  $B = [b_{ij}]_{m \times n}$  are said to be equal matrix if  $a_{ij} = b_{ij}$ ; for all  $i, j$
2. **Multiplication of two matrices :** Two matrices  $A$  &  $B$  are conformable for multiplication if number of columns in  $A$  is equal to number of rows in  $B$  i.e.  $AB$  exist if  $A = [a_{ij}]_{m \times n}$  &  $B = [b_{ij}]_{n \times p}$ . Then  $AB = C = [C_{ij}]_{m \times p}$ .

$$A = \begin{pmatrix} 2 & 7 \\ 5 & 1 \end{pmatrix}_{2 \times 2}$$

$$\beta = \begin{pmatrix} 2 & 1 \\ 2 & 9 \end{pmatrix}_{2 \times 2}$$

$$AP = \begin{pmatrix} 2 & 7 \\ 5 & 1 \end{pmatrix} \begin{pmatrix} 6 & 0 \\ 2 & 8 \end{pmatrix} = \begin{pmatrix} 6+14 & 2+56 \\ 15+2 & 5+8 \end{pmatrix}$$

$$A = \begin{bmatrix} 2 & 5 \\ 7 & 1 \\ 2 & 8 \end{bmatrix}$$

$3 \times 2$

$$\beta = \begin{bmatrix} 2 & 5 \\ 3 & 1 \\ 7 & 9 \end{bmatrix}$$

$3 \times 2$

Ap

$$= \begin{pmatrix} 2 & 5 \\ 7 & 1 \\ 2 & 8 \end{pmatrix} \begin{pmatrix} 2 & 5 \\ 3 & 1 \end{pmatrix}^{-1}$$

$3 \times 2$

$3 \times 1$

KC

$A$   ~~$m \times n$~~

$AB$   ~~$m \times q$~~

$(BA)$   
 ~~$p \times n$~~

$B$   ~~$n \times q$~~   $\underline{q}$

$\beta$   ~~$p \times (\ell)$~~   $A$   ~~$m \times n$~~

$n = p$

$q = m$

$A_{\text{ST}} \sim \beta_{2 \times 7} = (\bar{A}p)_{\text{ST}}$

$\bar{F} A$

$2 \sim \bar{F} \cup \bar{G}_{\text{ST}}$

Q.1: Let  $A = \begin{bmatrix} 0 & 1 \\ 0 & 2 \\ 1 & 0 \end{bmatrix}$  &  $B = [1 \ 2 \ 3]$ , then which of the following is true?

- (a)  $AB$  exist      (b)  $BA$  exist  
(c) Given data is insufficient  
(d) None of these

$$(AB) = (3 \times 2)(1 \times 3)$$

$$(BA) = \underline{\underline{1 \times 2}} \quad \cancel{3 \times 1}$$

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 7 \end{bmatrix}$$

$$A^T = \begin{bmatrix} 1 & 3 & 5 \\ 2 & 4 & 7 \end{bmatrix}$$

$$(A^T A) =$$

$3 \times 3$

$$(A^T A) =$$

$2 \times 2$

$A$   
 $5 \times 2$

$B$   
 $7 \times 2$

$$AB^T = A_{5 \times 2} B^T_{2 \times 7} = (AB^T)_{5 \times 7}$$

$A$   
 $n \times n$

$A^T$   
 $n \times n$

$\hat{P}$

$$\begin{matrix} X \\ Y \end{matrix} \quad 4 \times 3$$

order A

$$\begin{matrix} A \\ B \end{matrix} \quad 2 \times 2$$

$$\begin{matrix} C \\ D \end{matrix} \quad 4 \times 3$$

$$Y \quad 4 \times 3, \quad P_2 \times 3$$

$$\left[ P(X^T Y)^{-1} \quad R^T \right]^T \left( P_2 \times 3 \quad X^T Y \quad P_2 \times 2 \quad P^T \right)$$

$$\begin{matrix} B \\ D \end{matrix} \quad 3 \times 2$$

$$\begin{matrix} A \\ D \end{matrix} \quad 3 \times 4$$

$$\left( P_{2 \times 3} \left[ X^T \quad Y \quad P_2 \times 3 \right]^{-1} \quad P_{3 \times 2}^T \right)^T$$

Q.2. Let  $A_i = \begin{bmatrix} \cos^2 \theta_i & \cos \theta_i \sin \theta_i \\ \cos \theta_i \sin \theta_i & \sin^2 \theta_i \end{bmatrix}$ ,  $i = 1, 2$ . Then

$A_1 A_2 = 0$  if

$$A_1 A_2 = \begin{bmatrix} \cos \theta_1 & \cos \theta_1 \sin \theta_1 \\ \cos \theta_1 \sin \theta_1 & \sin \theta_1 \end{bmatrix} \begin{bmatrix} \cos \theta_2 & \cos \theta_2 \sin \theta_2 \\ \cos \theta_2 \sin \theta_2 & \sin \theta_2 \end{bmatrix} = \begin{bmatrix} \cos \theta_1 \cos \theta_2 & \cos \theta_1 \cos \theta_2 \sin \theta_2 + \cos \theta_1 \sin \theta_2 \sin \theta_2 \\ \cos \theta_1 \cos \theta_2 \sin \theta_2 + \cos \theta_1 \sin \theta_2 \sin \theta_2 & \sin \theta_1 \sin \theta_2 \end{bmatrix}$$

(a)  $\theta_1 = \theta_2 + (2k + 1)\pi/2$ ,  $k = 0, 1, 2, \dots$

$$\cos^2 \theta_1 \cos^2 \theta_2$$

$$+ \sin^2 \theta_1 \sin^2 \theta_2$$

(b)  $\theta_1 = \theta_2 + k\pi$ ,  $k = 0, 1, 2, \dots$

$$= \begin{bmatrix} \cos \theta_1 \cos \theta_2 + \cos \theta_1 \sin \theta_2 \sin \theta_2 & \cos \theta_1 \cos \theta_2 \sin \theta_2 + \cos \theta_1 \sin \theta_2 \sin \theta_2 \\ \cos \theta_1 \cos \theta_2 \sin \theta_2 + \cos \theta_1 \sin \theta_2 \sin \theta_2 & \sin \theta_1 \sin \theta_2 \end{bmatrix}$$

(c)  $\theta_1 = \theta_2 + 2k\pi$ ,  $k = 0, 1, 2, \dots$

$$\begin{bmatrix} \cos \theta_1 \cos \theta_2 & \cos(\theta_1 - \theta_2) \\ \cos \theta_1 \cos \theta_2 & \sin \theta_1 \sin \theta_2 \end{bmatrix}$$

$$\cos \theta_1 \cos \theta_2 (\theta_1 - \theta_2)$$

(d)  $\theta_1 = \theta_2 + k\pi/2$ ,  $k = 0, 1, 2, \dots$

$$= \begin{bmatrix} \cos \theta_1 \cos \theta_2 (\theta_1 - \theta_2) & \cos \theta_1 \cos \theta_2 (\theta_1 - \theta_2) \\ \cos \theta_1 \cos \theta_2 (\theta_1 - \theta_2) & \sin \theta_1 \sin \theta_2 \end{bmatrix}$$

$(\cos \theta_1 \cos \theta_2 + \sin \theta_1 \sin \theta_2)$

$$\cos(\theta_1 - \theta_2) = 0 \Rightarrow \theta_1 - \theta_2 = (2m+1)\pi$$

$$\theta_1 - \theta_2 = (2m+1)\pi$$

$\theta_1 =$

$$\zeta \theta = 0$$

$$\theta = \text{const} \pi$$



Q.3 How many elements do the set

$$S = \left\{ A = \begin{bmatrix} 2 & 3x \\ \frac{3}{x} & 2 \end{bmatrix} : x \in R \setminus \{0\} \right\}$$

Have, such that each

element of the set satisfies the equation  $\underline{A^2 - 4A - 5I = 0}$

~~(a) Infinitely many~~

~~(b) 1~~

$$\left[ \begin{array}{cc} 1 & 1 \\ 1 & 1 \end{array} \right] - 4 \left[ \begin{array}{cc} 2 & 3 \\ 2 & 2 \end{array} \right] - 5 \left[ \begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right]$$

~~(c) 2~~

~~(d) 3~~

$$\left[ \begin{array}{cc} 1 & -8 & -5 \\ 1 & -1 & 0 \\ 2 & -1 & 0 \end{array} \right] - \left[ \begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right] = \left[ \begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array} \right]$$

$$A^2 = \left( \begin{bmatrix} 2 & 3 \\ \frac{3}{x} & 2 \end{bmatrix} \right) \left( \begin{bmatrix} 2 & 3 \\ \frac{3}{x} & 2 \end{bmatrix} \right) = \left( \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \right)$$

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### ~~3.~~ Positive integral power of a square matrix :

If  $\underline{A} = [a_{ij}]_{m \times n}$  then  $\underline{A^2 = A \cdot A}$  &  $A^k = A \cdot A \cdot \dots \cdot A$  (k-times)

#### Note :

- (1) If sum of element in each row or each column of a square matrix A is 'a' then sum of element in each row or each column of a square matrix  $\underline{A^n}$  is  $a^n$ .

$$A = \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 3 \\ 2 & 0 & 2 \end{pmatrix} \quad \left( \begin{matrix} 4 \\ 4 \\ 4 \end{matrix} \right)$$

$$A^2 = \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 3 \\ 2 & 0 & 2 \end{pmatrix} \quad \left( \begin{matrix} 0 & 1 & 2 \\ 2 & 0 & 2 \end{matrix} \right)$$

= 

$$A^{10} = \left( \begin{array}{c} 4^{10} \\ 4^{10} \\ 4^{10} \end{array} \right)$$

$$4^{10} + 4^{10} + 4^{10}$$

$3 \cdot 4^{10}$

$$A = \begin{pmatrix} 1 & 2 \\ 7 & 5 \end{pmatrix}$$

8 8

$$A^{-1} = \begin{pmatrix} 1 & 2 \\ 7 & 5 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 7 & 5 \end{pmatrix}$$

$$= \begin{pmatrix} 15 & 4 \\ 49 & 50 \end{pmatrix}$$

64      54

(6)      (5)

$$A = \begin{pmatrix} 1 & 5 \\ 2 & 4 \end{pmatrix} \quad (6)$$

$$\beta = \begin{pmatrix} 3 & 4 \\ 2 & 5 \end{pmatrix} \quad (7)$$

(AB)  $\begin{pmatrix} 1 & 5 \\ 2 & 4 \end{pmatrix} \begin{pmatrix} 3 & 4 \\ 2 & 5 \end{pmatrix}$

$=$  

**Note :**

- (2) If each row or column sum in A is a & each row or column sum in B is b then each row or column sum in AB is ab.



**Q.5** If  $A = \begin{bmatrix} 3 & -2 \\ 2 & -1 \end{bmatrix}$ , then  $A^{20}$  equals

(a)  $\begin{bmatrix} 41 & 40 \\ -40 & -39 \end{bmatrix}$

(c)  $\begin{bmatrix} 41 & -40 \\ -40 & -39 \end{bmatrix}$

(b)  $\begin{bmatrix} 41 & -40 \\ 40 & -39 \end{bmatrix}$

(d)  $\begin{bmatrix} 41 & 40 \\ 40 & -39 \end{bmatrix}$

Q.6. If  $P = \begin{bmatrix} 1 & 1 & 1 \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix}$ , then  $P^{50}$  equals

(a)  $\begin{bmatrix} 1 & 100 & 500 \\ 0 & 1 & 100 \\ 0 & 0 & 1 \end{bmatrix}$

(b)  $\begin{bmatrix} 1 & 50 & 100 \\ 0 & 1 & 50 \\ 0 & 0 & 1 \end{bmatrix}$

(c)  $\begin{bmatrix} 50 & 100 & 150 \\ 0 & 50 & 100 \\ 0 & 0 & 50 \end{bmatrix}$

(d)  $\begin{bmatrix} 1 & 50 & 1275 \\ 0 & 1 & 50 \\ 0 & 0 & 1 \end{bmatrix}$

$$P^2 = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}, P^3 = \begin{bmatrix} 1 & ? & 5 \\ 0 & 1 & ? \\ 0 & 0 & 1 \end{bmatrix}, P^4 = \begin{bmatrix} 1 & 4 & 10 \\ 0 & 1 & 9 \\ 0 & 0 & 1 \end{bmatrix}$$

$$\frac{T_1 \ T_2 \ T_3 \ T_4}{T_1, 3, 6, 10, \dots}$$

$$T_{50}$$

$$\frac{n(n+1)}{2}$$

$$T_2 - T_1 = 2$$

$$T_3 - T_2 = 3$$

$$T_4 - T_3 = 4$$

$$\vdots$$

$$\vdots$$

$$T_5 - T_4 = 5$$

$$\frac{50 \times 51}{2}$$

$$T_{50} - T_1 = 2 + 3 + 4 + \dots + 50$$

$$T_{50} = 1 + 2 + 3 + \dots + 50$$

**Q.7.** The least positive integer  $n$ , such that  $\begin{pmatrix} \cos \pi/4 & \sin \pi/4 \\ -\sin \pi/4 & \cos \pi/4 \end{pmatrix}^n$  is the identity matrix of order 2, is

- (a) 4
  - (b) 8
  - (c) 12
  - (d) 16

Q.8 If  $A = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$  then  $A^{50}$  is

$$(a) \begin{bmatrix} 1 & 0 & 0 \\ 50 & 1 & 0 \\ 50 & 0 & 1 \end{bmatrix}$$

$$(b) \begin{bmatrix} 1 & 0 & 0 \\ 48 & 1 & 0 \\ 48 & 0 & 1 \end{bmatrix}$$

$$(c) \begin{bmatrix} 1 & 0 & 0 \\ 25 & 1 & 0 \\ 25 & 0 & 1 \end{bmatrix}$$

$$(d) \begin{bmatrix} 1 & 0 & 0 \\ 24 & 1 & 0 \\ 24 & 0 & 1 \end{bmatrix}$$

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

$$A^4 = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 2 & 0 & 1 \end{bmatrix}$$

$$A^8 = \begin{pmatrix} 1 & 0 & 0 \\ 4 & 1 & 0 \\ 4 & 0 & 1 \end{pmatrix}$$

$$A^{16} = A^2 \cdot A^8$$

$$\underline{A^{32} = A^4 \cdot A^8 \cdot A^8}$$



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### Educator highlights

- 📍 Works at Pacific Science College
- 📍 Studied at M.Sc., NET, PhD(Algebra), MBA(Finance), BEd
- 📍 PhD, NET | Plus Educator For CSIR NET | Youtuber (260K+Subs.) | Director Pacific Science College |
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