A.R. TUTORIALS

MATRICES

[15] [10 F 6 7]

[7 5 6]

It is an array of numbers. It is a combination of some or couling It is a rectaguler arrangent of numbers. 70000 = 1.5 = 4 32:order of matrix = not one X hod- coulling A matrix has 12 elements. ford the not possible order 12x1, 1x12, 3x4, 4+3, 6+2, 2x6 ->> 7 eletri => 7×1, 1×7 (3 2 aij = 1th 2020 (3) 2 aij = 1th 2020 (4) azz and Jth colon elad

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Carptod a 3×2 matrix where ais $ais = \frac{1}{2} |i-35|$ $A3x_{1} = \begin{cases} a_{11} & a_{12} \\ a_{21} & a_{32} \end{cases}$

a12= = | 1-3×2 an= 1/1-3/1 man = 1 |-51 = 32 = 2 | 2 | = 1

a31= 0, a32= 3/2 [1 2] 2 3 4

Types of mubix me om 2 h coulons
[1567--] Row mubix =1 2t hap one

Column mator's 9+ haz onte coulm & 4 sons

[AR. TURRIAL)

Squar natix not rows = not wulms [2 2] $\begin{bmatrix} 3 & 2 & 3 \\ 3 & 2 & 3 \\ 4 & 5 & 6 \\ 2 & 2 & 1 & 2 \end{bmatrix}$ Diagoul matrix & madrix in which the main diagnel elent wol non Zono and otherse elent ase Zero. [13] [500] unit matrix = Idealy matrie. =) g t in a diagral matrix where main diagnol elemed me one (i) [i] A.R. TUTORIALS J1, J2 Mull mutix All elemby on ten [0] [0°0] [0°0] Q sot type (a b) = (3 4). a=3, 5=4, C=5, d=6 B= (n-3 y = 5 4 5) n-3=5, y=0, 2=4, 2w+2=6 n=8, 2w+4=6n=8, 2W-6-4 2N=2

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North Contract of the Contract

fund a, b, c,d

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13, 8)

Substrutof metrix =1 [-3. 0]

$$A = \begin{bmatrix} 3 & 4 & 2 \\ 1 & 3 & 2 \\ 5 & 4 & 6 \end{bmatrix}$$

substanden 1 3A= 19 12 6 two matrics it

3A= 13 6 possible if order A two matrices is some

negative of A =) (-1 -3 - 4 - 2) [36] - [42] - [78] = [0]

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{bmatrix}, B = \begin{bmatrix} 3 & -1 & 3 \\ -1 & 0 & 2 \end{bmatrix}$$

$$= 2A - B$$
 $= \begin{bmatrix} -1 & 5 & 3 \\ 5 & 6 & 0 \end{bmatrix}$

$$\chi + 3 = \begin{bmatrix} 5 & 2 \\ 0 & 5 \end{bmatrix} - \left(\frac{1}{3} \right)$$

$$x-9=\begin{bmatrix}3\\6-1\end{bmatrix}$$

$$\begin{array}{ll}
x + y + x - y = \begin{pmatrix} 8 & 8 \\ 6 & 8 \end{pmatrix} \\
2x \\
x = \begin{pmatrix} 9 & 9 \\ 0 & 9 \end{pmatrix}
\end{array}$$

$$\begin{array}{ll}
A \cdot R \cdot TUTORIALS
\end{array}$$

$$y = \begin{bmatrix} 0 & -2 \\ 0 & 5 \end{bmatrix}$$