Motivia

Some properties

ete ...

Note that A.B & B.A. in great.

Not

quan motion # 17005 = # cotum.

Digital Company traiglar

$$Y(\overline{B}) = (Y\overline{B}) = \overline{Y}(\overline{Y}\overline{B})$$

$$\overline{Y}(\overline{B}+\overline{C}) \cdot \overline{Y}\overline{B}+\overline{Y}\overline{C} \qquad D!^{1}$$

$$\overline{Y}(\overline{B}+\overline{C}) \cdot \overline{Y}\overline{B}+\overline{Y}\overline{C} \qquad D!^{1}$$

Imerce

gram A the inver A'

 $\mathcal{I} = \underline{A'A} = \underline{A'A}$ wing

$$A = \begin{pmatrix} 1 & 2 \\ 1 & 2 \end{pmatrix} \qquad \tilde{A}^{1} = \frac{1}{2} \begin{pmatrix} 2 & 1 \\ -1 & 2 \end{pmatrix} \qquad A \cdot \tilde{A}^{1} = I$$

0

Is usely for soling system of equations

$$\begin{pmatrix} 3 & 4 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} x \\ 4 \end{pmatrix} = \begin{pmatrix} x \\ 1 \end{pmatrix}$$

Az=B

$$\underline{A}'\underline{A}\underline{y} = \underline{A}'\underline{B}$$
.

$$\chi = \frac{1}{2} \left(\frac{1}{3-\epsilon} \right) \left(\frac{1}{\epsilon} \right) = \frac{1}{2} \left(\frac{1}{6-\epsilon} \right) = \frac{1}{2} \left(\frac{3}{8} \right)$$

Trimopad

Mij = Minar = det of A with i till rows + colon removed.

Aut
$$A = \sum_{i=1}^{n} a_{ij} M_{ij} (-1)^{iij}$$
 who is
$$= \sum_{i=1}^{n} a_{ij} M_{ij} (-1)^{iij} \quad \text{and } i$$

Propert 6 determite.

Any row or colu = 0 > dotA=0

Swith rows on coli & det & = . det A

Two rows or columns or = = = = = = 0

A row or colon is a multiple of another than => detA = 0

A row on color is a line continution of others with 1=0

det(AB) = d.xA.dxB

ed (x) = det A.

LAA = Thai if his dragent or trangely.

Ax=0 he might shirt x=0

Ax=b he might shirt for b

At waish

At a vaint

Let A \$0

Let va game shirt to £0 At

Let va game shirted.

Syste Ax=b Air nun dd AFO did A=0 Nonsmyla Singilar No A" A" wante Hano صطل Nanharo X=0 X=0 plus No X x XP +01 XH OD WOOL solute Crames Gauss-Jordun Cofacturs.

6

Use Gars Elimb