Pmys Town Tan

P(A) 291 PTT-1Q = PQ = A

As T in N-s multiplying by well not Charge the mank. So, (PT, T-16) is an

RF. (P1,41) up an RF =) e(P1) = e(a1)=97 P1

& (P1) = & (P)

(PI) mxn = Pmxn Torxon

if P(T) <9 P(Pi) & P(T) <9 nel b-wbl P(T)=97 and P1=PT

a, > Sa

P.a. = PTSQ = Pa

PTSQ > PQ

TS = In

As T 11 a saucre motorin, T= S-1

2) If A ~ a null materin, take C to be

a null matrin. If P(A) >1, A=PQ C(A) - C(P), R(A) - R(e) $\xi(A) \subseteq \xi(B)$ | $R(A) \subseteq R(D)$ =) $\xi(P) \subseteq \xi(B)$ | $= R(A) \subseteq R(D)$ =) P = BX | = P = BXA=PQ=BXYD=BCD $A = A^2$ Pa = Pa Pa (2) PLIPQQP = PIPQPQQR (2) In 2 ap QP=In Papa > Pa $= A^2 = A$ P(A) = P(A2) = 91

$$\frac{QP \text{ is } n-s}{P(aP)=p} = P(A) = P(A^{2})$$

$$\frac{P(aP)=p}{P(aP)=p} = P(A)$$

$$\frac{P(A^{2})}{P(A^{2})} = P(A)$$

$$\frac{P(A^{2})}{P(A^{2})} = P(A)$$

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$$\frac{P(A^{2})}{P(A^{2})$$

 $\mathcal{N}^2 = 1$, $\mathcal{N} \mathcal{Y} = 1$, $\mathcal{Y}^2 = 1$

$$(N-y)^2$$
, $N^2-2Ny+y^2=1-2+1=0$

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} w & y \\ w & z \end{bmatrix} \begin{bmatrix} w & w \\ y & z \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} N \\ 4 \end{bmatrix} \begin{bmatrix} N & 4 \end{bmatrix}$$

$$N^2 = 1 \quad NY = 0 \quad 4^2 = 0$$

$$\begin{bmatrix} 0 & 1 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} N \\ 4 \end{bmatrix} \begin{bmatrix} N \\ 4 \end{bmatrix}$$

$$N^{2}=0$$
, $NY=1$, $Y^{2}=1$

$$\begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}$$

$$\begin{bmatrix} -1 & 1 \\ 1 & -1 \end{bmatrix} = \begin{bmatrix} n & y \end{bmatrix}$$

$$\chi^{2} = -1 \quad \lambda y = 1$$

6)
$$A = \chi y^T$$

$$= \begin{bmatrix} \chi_1 \\ \chi_n \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \end{bmatrix}$$

$$= \chi y^T$$

$$= \chi y^T$$

$$= \chi y^T$$

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