ISIOTNIES $(A^{T})^{T} = A$ 2) (A + B) = AT + BT 3) $(AB)^{T} = A^{T}$ 4) $(AB)^{T} = B^{T} A^{T}$ EISLYON TETERMUNICON PRIVAKES 1) DIAZWY105: Kate GTOIXELO EXTOS THIS KUDIAS SIAZWYIOU=) $\begin{bmatrix}
 0.x. & A = & 1.00 \\
 0.20 \\
 0.03
 \end{bmatrix}$ 2) Arw TPIZWYIKOS: KOIDE GTOIXEID KATW AND THY KUPIA DIGYWYD-D 3) Katu TPIXWVIXOS: OJQ TOL GOIXEIQ navw and Thy Kupia Siazzovio = 0 n.x. A = 100 230 456 4) Suletpiros: O Tay A = AT, Sp) O KUPIO SIAJUVIOS Elvai ajovas suffereias $\Pi.x. A= \begin{pmatrix} 1 & 4 & 5 \\ 4 & 2 & 6 \\ 5 & 6 & 3 \end{pmatrix}$ $\begin{pmatrix} A^{T} = \begin{pmatrix} 1 & 4 & 5 \\ 4 & 2 & 6 \\ 5 & 6 & 3 \end{pmatrix}$

5) Antiqui eterios: O tax
$$A = A^{T}_{0} dn_{0}$$
 otolyxia kupios

 $\delta aquariou=0$, authorized ordinata

 $A = \begin{bmatrix} 0 & 3 & -3 \\ -3 & 0 & 4 \end{bmatrix}$, $A^{T} = \begin{bmatrix} 0 & -3 & 3 \\ 3 & 0 & -4 \end{bmatrix}$
 $A = \begin{bmatrix} -4 & -3 & 4 & 0 \end{bmatrix}$
 $A = \begin{bmatrix} -4 & 1 & 4 & 4 \end{bmatrix}$

1) O avastpougos exos anu tolyminata enal nanu tolyminata

3) An o A exist offerens to the kall offerens

(A^{T}) $= A = A^{T}$

4) An ol A, B exist sufferens to the kall $A \pm B$ exist sufficient

5) An o A exist sufference kall be R tothe kall of A exist sufference

(A^{T}) $= A = A^{T}$

=D AB=[-21] ABT \ AB

Eστω AB συβετρικοι nivaxes O AB είναι συβετρικος av Kai lovo av AB = BA Anobeign AB of Expiros AD (AB) = AB (0010/05) J=D BTAT = AB (180 TITES ON OCT DOYOU) CED BA - AB (AB SULLETPINO) Demona. AV ABENIAL OUTETPINOL TETPAJUVIKOL MIYAKES TOTE O AB-BA Elvar artion itpicos Anoderin (AB-BA) = (AB) - (BA) = BTAT - ATBT =BA- AB =- (AB -BA) Artietpewinor nivaxes Opiolos: Eras artietperios nivaxas A Jeretai artietpurios ar Unapxel nivaros B ibimy blackasemy mote AB=BA=I O B out BOJITETOI LE A Naparnonon. Ynapxory TETP. nivares now ber Eval artistperior

STOTA OI B ONDIDERDANDIE 3×3 MYDREAS O BA EXEL INDEXIXA othe third author Evas nivaras nou dev evai autierperpilos deserai idiatur DEMPINA: (JOVA SIXUTINTA TOV AVITETEO GOV) O antiorpopos enos nivara A av unagxy Elvar povabivos Dempna: (artioteogos 2x2 nivaras)

O nivaras A = (a b) Eivai artioterpitos av kai lovo av $ad-bc \neq 0$ kai $A^{-1} = \frac{1}{ad-bc} \left(\frac{d-b}{-c} \right)$ $P(X) = A = \begin{pmatrix} 6 & 1 \\ 5 & 2 \end{pmatrix}, B = \begin{pmatrix} -1 & 2 \\ 3 & -6 \end{pmatrix}$ 0 A ENVIN artiotperplos Sioti A = 1 2 -1 2 -1 2 -17 0 B SEV EIVAI AMOTORENENOS SIOTI (-1)(-6) - 123) =0 00,000 EVAS TETPAZENTIKOS NIVARAS A ARGITAL OD BOZENTIOS - QV AAT = AT A = I + Shy AT EVAL O OVITIETEDEDOS TOU A *anosexxvetal of the ano Tis SUD ISIOTATES APKEL

=DAAT = 010 aga o A ENVOY DEPORTUTIOS