$$\frac{32 = -2+12 : A - (-2+12) I = A + (2-12) I = (-12-12) I = (-12-12)$$

$$\Rightarrow \begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{pmatrix} = \chi_3 \begin{pmatrix} 1 \\ -\sqrt{2} \\ 1 \end{pmatrix}$$

Aniseign: Low A=PBP-1 (=>B=P-1AP <=> B-AI=P-'AP-AI=P-'AP-AP-AP-'IP= = P-1 (AP-JIP) = P-1 (A-JI)P= det (B-71) = det P-1 (A-21) P= =det.P-1. det(A-71). det P= = det (A-21) =>det (B-21) = det (A-21) Apa or AB Exor i Sio xap Modurino Capa i Sies 1810 raties le isia noddandowna). Englacebotrace 210 opolocues pe gradiono winara $\frac{\pi \times A = (7 + 2)}{(-4 + 1)}, D = (5 + 0)$

= $A = \begin{pmatrix} 1 & 1 \\ -1 & -2 \end{pmatrix} \begin{pmatrix} 5 & 0 \\ 0 & 3 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ -1 & -2 \end{pmatrix}$ (giazi,)

Apa A oporos pe D Apa det A=15 =det D 18iornées rou A=18ionnées rou D=[3,5] Enions AK= P. DKP-1 Kay DK= 15k O

Opioleos: Evers responsivitios nivaras degeral Stazavionamonhos ni Siazuvo Moinertos on Elvarófeoros pre Siazivio Minara.

Θεώρηλια Διαχωνοποιήσιμου Πίνακα:
Dempnia Diazwyonoinothou Mivaka: Tia Evav MXN Mivaka A, Ta axidouda Eivai 1508ú valia: DO A Exel M papifika avejapana 18108iavuotiara. E) O A Eivai Evas Siazwyonoinathos Madiora, av A=PDP-1 o nou D Siazuvios Mukas, ToteoP Exel ws ornides n zpapifika avejapana 18108iavuotiara Tou A Kai Ta otoixeia Tou D eivai 18107aties Tou A.
2) O A EXEL M Realitive anslaptina 101001 and hata.
Madiara ou A=PDD-1 à nou D Suggiores Timeras, ToteoP
A vor espectoivoidoid removações a xintelaga a 236 nos em 1343
Kaita otoixela tou Deivai i Siotaliès tou A.
Anoderin:
(2=X1) Fru A Signification Le A-DDP-1 D Signify 108
(2=>1) Form A Siagnovo noinélipos pe A=PDP-1, D Siagno vios (=> AP=PD
$Eorw$ $P = [P_1 P_2 - P_n]$
AP=[AP, AP2APn]
D * d1
Kai av D= 72) Tote
$\langle \rangle$
$DP = [a_1P_1 a_2P_2 a_nP_n]$
EGOGOV AP=DP=>AP1=21P1, AP2=22P2,, APn=2nPn
Pi i Sio 8 i di vio A
\Rightarrow \uparrow
Pn — 11 — A
P1, P2,, Pn peak avefáponou os avides sou avargêgitem nivaka P
1=>2) Form P. Pz Po zpak avejápenea idodia vootraren zon
$A = E_0 \cup P = P_1 + P_2 \cdots P_n$
Aby = 22 P2,, APn = 2n Pn Kai D = (2)
$AP_2 = \partial_2 P_2$,, $AP_n = \partial_n P_n \text{ kai } D = \partial_1$ ∂_2 ∂_2
lepioroulis
or AP=DP
OU APEDP.