

Αλεξανδρος Μαραντος 3329

'Alaman 499

(d) de1 Q=de10

(B) Apoi o Tilidikais opegicillos Kall dex (Q) +0 Tote Sel einal europeania, explicizize-

Acumen 4.2.16

Apr: des(A) = -1.4.1=-4.

Apd: dex(B) = 1.4.1=4

Apr: dex(c)=0 (S10/10/905-0 C

Admin 4.3.4

dex(A)=1.1.1.1=1

Aaman 44.1

dex A=14.5=20

$$\begin{bmatrix} 4 & 0 \\ 0 & 5 \end{bmatrix} - \begin{bmatrix} 0 & 0 \\ 0 & 5 \end{bmatrix} + \begin{bmatrix} 0 & 4 \\ 0 & 0 \end{bmatrix} - \begin{bmatrix} 9 & 3 \\ 0 & 5 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ 0 & 5 \end{bmatrix} - \begin{bmatrix} 1 & 2 \\ 0 & 5 \end{bmatrix} + \begin{bmatrix} 2 & 3 \\ 4 & 0 \end{bmatrix} - \begin{bmatrix} 1 & 3 \\ 0 & 4 \end{bmatrix}$$

$$A_{bd_{A}} = \begin{bmatrix} 20 & 0 & 0 \\ -10 & 5 & 0 \\ -19 & 0 & 4 \end{bmatrix}$$

$$A^{T}_{G}_{\mu} = \begin{bmatrix} 20 & -10 & -12 \\ 0 & 5 & 0 \\ 0 & 0 & 4 \end{bmatrix}$$

$$A^{2} = \frac{1}{20} A\omega h = \begin{bmatrix} 1 & -\frac{1}{2} & -\frac{3}{5} \\ 0 & \frac{1}{4} & 0 \\ 0 & 0 & \frac{1}{3} \end{bmatrix}$$

$$\frac{|A + b|}{|A|} = \frac{|A|}{|A|} = \frac{|A|}{|A|$$

(b)
$$X+4y-Z=1$$

 $X+y+Z=0$
 $2x+3Z=0$

$$\begin{bmatrix}
1 & 4 & -1 \\
1 & 1 & 1 \\
2 & 0 & 3
\end{bmatrix} = \begin{bmatrix}
1 & 4 & -1 \\
2 & 0 & 3
\end{bmatrix} = 3$$

$$\begin{cases}
1 & 4 & -1 \\
2 & 0 & 3
\end{bmatrix} = -1$$

$$\begin{cases}
1 & 4 & -1 \\
2 & 0 & 3
\end{bmatrix} = -1$$

$$\begin{cases}
1 & 4 & -1 \\
2 & 0 & 3
\end{bmatrix} = -1$$

Apol o A apywithos Exel parepes isnowles:

$$det(A-1/I) = \begin{vmatrix} 1-x & 2 \\ 0 & 3-x \end{vmatrix} = (1-x)(3-x)$$

Mayauxeige an 1= Mappy in 4 he 7 xa1 was essen each

$$\frac{1}{12} = \frac{6 \pm \sqrt{24}}{2} = \frac{6 \pm 2\sqrt{6}}{2} = \frac{1}{12} = \frac{1}{12} = \frac{3 + \sqrt{6}}{2}$$

Mapaanpu 62: 1/2 + 1/2 kaz 1/2 + 1/9

Acres 51.13

Mores or Bosthe's 200:

ο β έχει ιδιουμές 1,2,3 ο C έχει ιδιουμές 4,5,6 ο D έχει ιδιουμές. 7,8,3.

 $A = \begin{bmatrix} B & C \\ O & D \end{bmatrix}$;

 $det(A-YI) = \left| \begin{bmatrix} B & C \\ O & D \end{bmatrix} - \begin{bmatrix} YI & O \end{bmatrix} \right| =$

 $= \begin{bmatrix} B-\lambda I & C \\ O & D-\lambda I \end{bmatrix} = |B-\lambda I| |D-\lambda I| - |OHC| =$

= 1B-1-1/1D-1-1/

The vid Bopis 1810 Elies 200 A tod mpetres:

dea(A-XI)=0=D/B-XI/D-XI=0.=D

1B-1I/=0 1/ 1D-1.I/=0.

= ερω όμως όα ο β εχει ιδιοχίες 1,2,3 . Και ο D 7,8,9

Apd: 01 18107/165 700 A Ad ENVAL 1,2,3 H 7,8,9.

$$A=\begin{bmatrix} d & b \\ c & d \end{bmatrix}, B=\begin{bmatrix} d & r \\ s & t \end{bmatrix}$$

trace (AB)=trace(B:A).

AB-BA=I=D trace(AB-BA)= trace(I) = D b/s-5(+x/r-5/6=2=>0=2-ADYNATH-

Abstract 5.3.8

$$=0.418-13-0.261+0.418+0.816-0.041+0.121+0.048-0.064+0.261+0.121=$$

$$=-13+0.818+0.21=1(-18+0.81+0.2)$$

1=(0,8)2-40,2=1,44 $\lambda_{2,3} = \frac{0,8 \pm 1,2}{9} = \frac{\lambda_{2} = 1}{\lambda_{3} = -0,2}$ $\lambda_{1} = 0$ $\lambda_{2,3} = \frac{0,8 \pm 1,2}{9} = \frac{\lambda_{2} = 1}{\lambda_{3} = -0,2}$ $\lambda_{1} = 0$ $\lambda_{2,3} = \frac{0,8 \pm 1,2}{9} = \frac{\lambda_{2} = 1}{\lambda_{3} = -0,2}$ $\lambda_{1} = 0$ $\lambda_{2} = 0$ $\lambda_{2} = 1$ $\lambda_{3} = 0$ $\lambda_{4} = 0$ $\lambda_{5} = 0$ $\lambda_{5} = 1$ $\lambda_{5} = 0$ $\lambda_{5} = 1$ 18) Ano (d) or 18 102/25 to A= [1=0], /2=1], /3=-0,2 (8) Uo=10,10,0) Speize 30 opio ou Ax do 100 x->00. H Graped Rolangaled Eingl so ignorphy and you ansiers their 12=8/ Whalp 13=7 $\frac{1}{1} = \frac{1}{1} = \frac{1}$ Trupigu oti y licen coo AK. Un TENER ripos Eva THAMINO'GIG KER ZOU $Y_2 = \begin{vmatrix} 1 \\ 4/3 \end{vmatrix}$ Now Eival In Stal Depart Matrice rates Clos Tid Vd light to essent trollation of you to the tollation of the tollation ON TO MAINGING DE ZON ATOU NOT SHE WEIGHT OF MADE [012.04.013] [1] [IN K-15] [0,2.0,4.0,3] [15/8] [15/8] [0,4.0,4.0,4.0,4.0] [15/8] [15/8] [0,4.0,4.0,4.0,4.0] [5/2] [5/2] Apd: h Gardepal Kataletalan Upo ENAI 15187

A64060 5.3.9

6

b: 0,5b+0,1+0,55 l: 0.5+0,5l+0,55 S: 0,5b+0,5l+0.5 b=Bosrian l=Nos Auzgeles S= Zurago

Apa: $A = \begin{bmatrix} 0.5 & 0 & 0.5 \\ 0 & 0.5 & 0.5 \end{bmatrix}$

H establicator sindi so kasaillino notrandisono son 1/2 = 1/2 hospiriales non allabatoro son prosidired son 1/2 = 1/2

 $(A-\lambda I) \times = \begin{bmatrix} 0,5 & 0 & 0,5 \\ 0 & -0,5 & 0,5 \end{bmatrix} \times = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$ $A_{2}u: X = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$

05 HOWS POLISTOSH MOREOLOSD H

Uso=K-[1], yid voltono KER.

K+K+K=3K.