Sanodism Tudina.

EPTAGIA 2 - AMORPHERS

They a= \$=4, \$=8=0, \$0 600 mails on \( 0=8=8 \), \( \text{\$4=8=0} \)

S LOVIS OBJOVITI 10 STOTO

5 = 7/mib .(0

A LOT DUDVÍTI CÍTUDAJÍTA CNINZURINO NOT AUTOKO : MANDONITÍA SALLONS : RESTADITORIS SAL

ripa papipier 1600 ou le 10 17160s

Tur for Institution spafetium. Apa

dimit = 3.

TIQ TOY MUPO GTYTHIN YOT EMOUSE:

B) dim / = 3

Annohoman:

$$\Rightarrow 11x + 12y + 9z = 0$$

$$11x + y + 7z = 0$$

$$x + 2y + 23z = 0$$

$$12x + 3y + 30z = 0$$

Le res isses apolier apokunte nois ou dim XI=3.

(iii) O riuprivas tero mis deivou to abvoro tur
receivou to aprikai austrificatos

## Artionogness:

$$\frac{\partial \begin{pmatrix} x \\ y \\ z \end{pmatrix}}{\partial x} = A \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{cases} 11x + 12y + 92 = 0 \\ 11x + y + 72 = 0 \\ x + 2y + 23z = 0 \end{cases}$$

$$\frac{\partial \partial x}{\partial x} + \frac{\partial y}{\partial x} + \frac{\partial y}{\partial x} + \frac{\partial y}{\partial x} = 0$$

Sovenius kero= 1(5).

$$0 \text{ lins } \Lambda(\vec{a}) = \begin{cases} (\vec{s}_1, \vec{s}_2, \vec{s}_3) & \text{ lint } y + \vec{s}_2 = 0 \\ & \times + ay + a3z = 0 \end{cases}$$

$$11x + y + \vec{s}_2 = 0$$

$$12x + 3y + 30z = 0$$

A horasirá juen con enemphasos eivas u (0,0,0) ano ep 1, elipason aporionzes o enemphasos enemphasos kintraturios.

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saylors.	
HINONORUM:	
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- x06 + x61	
1 = x86 + y6 + x	
K = XF + U + XII	
7 = ZE + het + xTT	
Brisgn ins work ou oil (vi	ď

Anistorius
Modos, Sión Kerð = $\Lambda(a)$ and $(3i)$ kar $\Lambda(a) = (0,0,0)$ .
iul 0 nuprivas kero ms o sivai 20 obvors nuceuv za aprivas submitians.
Substant (3i)
v) Ynapher n Imoblean f. Anishamon:
Ados. A f la enpere va eivar on autierpoyn ms a Opuws on a Sev Eivar eni apa aine autierpegylun.
8) i) O TB aumenticiplios.  Molos giari Eivau TB ER <sup>4×3</sup> alpa o TB dev eivau respolgraviros  opa dev finapei va eivau aumenticiplios.
ii) rank( $\Gamma B$ ) = 0. Par ignus so $\Gamma = 0$ , ion so rather $\Gamma$ .
iii) $rank(rB) = 4$ .  Ados, giati $dim \chi_{(rB)} \le 3$ $dega$ $rank(rB) \le 3$ . $tou 4>3$ .
iv) lérius TB=A dia rampion Minara T.  Swerio giari o B auristragique os (eurosor o aurigliaros tritar- trumos rou eiva o I3). Sarraba unapria B <sup>1</sup> .
$\mathcal{A}_{pa}$ $\Gamma = A \cdot B^{-1} \in \mathbb{R}^{4\times 3}$
v) $rank(\Gamma B)=3$ yari $\Gamma B=A$ tou $rankA=3$ and $Ep.4$ .

 $\epsilon$ ) avoi  $K = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$  and  $\epsilon p. 1$ .

i) rank(k) = 3 Swerb and Ep 1

ie) Notos, prati o AK Eivau Nivatas (3x3) ki oni (4x4).

iii) Ignica to Gaippha:

Av I Evas Tivaras le spalelieux rai y ermiex Av Y Evas nivauas v spalelinis tar le ominiv O XY EXEL LI Spappies tou from the smites, no ASHOVITE SCOTIVOUS AND B OLD SQUIROLD SQUIROLD Av K=ronk(Y) kar n=ronk(Y) rone  $Vouk(x,y) \leq min(k, 3)$ 

SWETIUS TIPÈTIEN rank (KE) =  $4 \le 3 = rank(k)$  d'iono iv) Notes, pari 0 ZA Elvau Mivakas (3x3) ki oni (4x4) v) And to isio beingula, προκύπει σποπο.

(6)