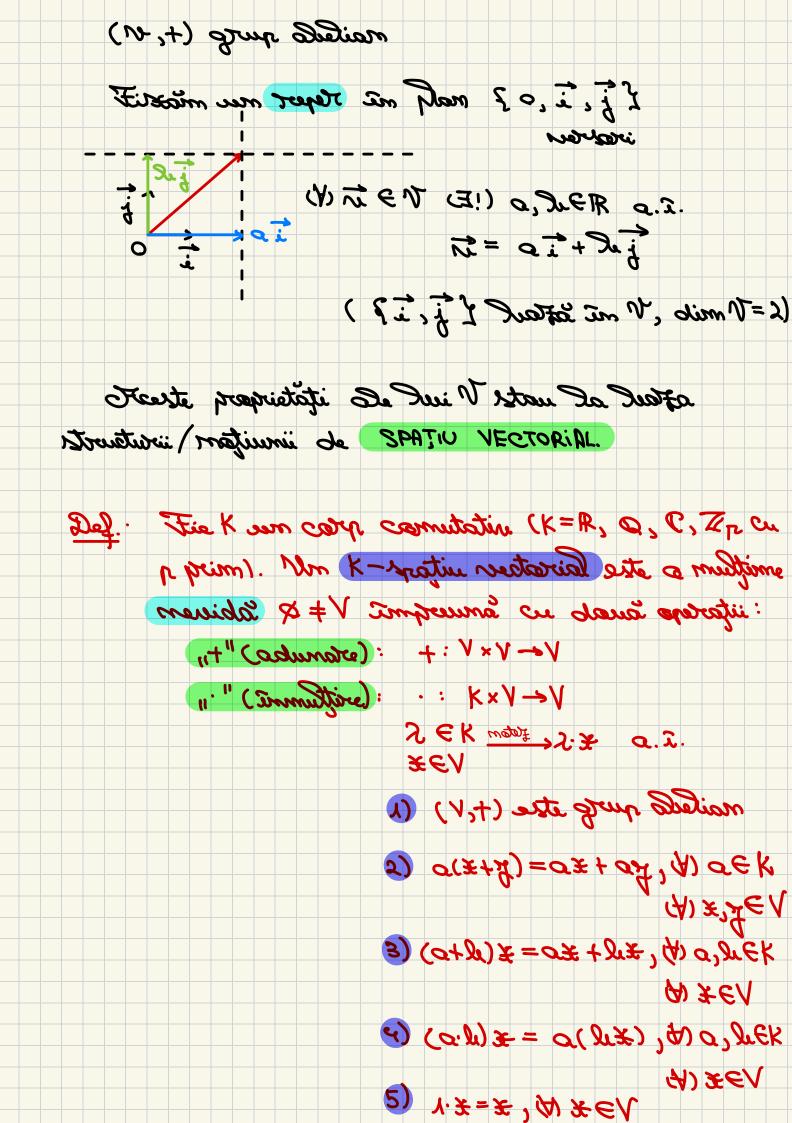
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	- mah ma -			
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"iratarı" ← V int stammed"

"iratarı ← N int stammed e n intaları ← n

intraisifees, is a stann iann eles sol ! estanaell V as saok manuer, istal true!

Example:

Cairataer ritare - A - mal mis isrataen V (

2) $\mathbb{R}^m = \mathcal{I}(\mathcal{X}_1, \mathcal{X}_2, ..., \mathcal{X}_m) \mid \mathcal{X}_1, ..., \mathcal{X}_m \in \mathbb{R}^2$ set un \mathbb{R}^{-1} partie rectarial a peraficie:

 $Q \in \mathbb{R} \qquad Q : (X_1, X_2, ..., X_m) = (X_1 + J_1, ..., X_m + J_m)$ $Q \in \mathbb{R} \qquad Q : (X_1, X_2, ..., X_m) = (QX_1, QX_2, ..., QX_m)$

integer-A race truck (A)mim) ~ MB mim (E)

A+B = (0 ij) + (Diij) = (0 ij + Diij)

aer a. H = alaij) = (a. aij)

ste ← ilest itraisifes us elemanilar = [X] A (P)

(airatism uitare - A mu

: Lairesteur uitant mu-strie liebes de iluges?

(N,+,) 1) 0(x-4)=0x-04, A) 06K, A) x2/261

3) (0-20) x = 0x-20x, A) 02 20EK, A) xEN

3) OK. X = O1, A) XEN

4) a. QN = QN, A) ack

2) A) ack is a) xen: a. x=01=1 a=0k

x=01

€) (-a). # = a(-#)=-a*, A) a∈k, A) #∈ 1

Dom .:

2) Q=(Q-ly)+lu

a = [(a-l) + l] = (a-l) + l + l + (-l)

£ (LP-0) = £1/2- x0

3) OK = OK+OK 1. # EN

OK # = (OK+OK) #

 O^{K} = O^{K} \div $+O^{K}$ \div $|-O^{K}$

01 = 0k 3

$$\frac{1}{\alpha} \cdot (\alpha +) = \frac{1}{\alpha} \cdot 0$$

$$(\frac{1}{\alpha} \cdot \alpha) + 0$$

$$(\frac{1}{\alpha} \cdot$$

elisateer iitarelul

> C) A) JEK LI A) ZEM OZEM C) A) Z'M EM Z+MEM

(=) (4) 0, SrEK, A) x2 €M

lairaterer uitane - 1 mes V : symaxs

Voic Saireteer interpolent tour V. [VOP (A > Leary [IXIA 3 & F = VA , taxif M3m wither (S 2030203

[x]Ami lairater niterpeller me sta niterpeller sta [A32, 12,0 | (20)}

(R) we direction

mitapeller stea [0= [1/4 # 7 19] Ame Caratases

5) Tie $A \in \mathcal{O}_{m,m}(IR)$. Obstain Kor A = multiceiR $S \neq ER^{m}(A \neq 0)$ (Kornel matriceiR

sesistam es negamo inlumetric slitular A = incumstrict

"Ani Carataser uitarselest ste Arax ismutot

Dom.

$$O = \begin{pmatrix} O \\ O \\ \vdots \\ O \end{pmatrix} \in \mathbb{R}^m$$

Fie asher si x,7 € Korn=1 Ax=0 4A =0 $C = \chi_{A} + \chi_{A} + \chi_{A} = (\chi_{A}) + (\chi_{A}) + (\chi_{A}) + \chi_{A} = 0$ $C = \chi_{A} + \chi_{A} = (\chi_{A}) + (\chi_{A}) + (\chi_{A}) + \chi_{A} = 0$ $C = \chi_{A} + \chi_{A} = (\chi_{A}) + (\chi$

Vm Caireston nitarellet steW asch ! sitemarle
W> 0 :=

Dom.

 $(3) & \in \mathbb{W} \Rightarrow \mathbb{X} \Rightarrow (E)$ $0 & \leftarrow \mathbb{W} \Rightarrow \mathbb{X} \oplus \mathbb{W} \Rightarrow \mathbb$

Bef.: The V_1, V_2 religion interpolar V_1, V_2 if V_1, V_2 if V_1, V_2 is V_1, V_2 .

Thus lairesteered stee V_1, V_2 is V_1, V_2 in the sentines so

. Nig Il rollitazeller amuer stramum ar strato

Dom.

Fie a, 2eK 3i ex, 3e ex, 4e ex, 4e, 4e

$$= (2x+3xx)+(2y+2yx) \in V_1+V_2$$

elisation intervolut their sV is 1 V interport lairation of site of the site o

nã Cairataser nitagralus stea 5VUIV ! sitamaral

sairetseer radiitezzeles amul : matilarenet

 $V_{1} + V_{2} + ... + V_{m} = \mathcal{Z} \times 1 + \mathcal{Z}_{2} + ... + \mathcal{Z}_{m}$

Drapatitie: Fie V1,..., Vm subsparie restarciale an V a. 2. V = V1...+Vm.

indavida true istanvifo Socatomol

: (0) A) * E) (3i) x' E/1""

₹m∈ Nm Cu

*= \frac{1}{2} \x\:

 $(\mathcal{D}_{i}) \quad \forall i \quad (\mathcal{D}_{i}) = \varsigma_{0} \forall i,$ $i = i \quad (\forall) \quad \dot{\alpha} = \overline{i, m}$

stre V 20 menust c sitantier Estraso T .m/c....... rabilitapelles a stessile some Sorium V = V1 @ V2 @ ... @ Vm

(6 = m) : radicition fas

1= 11 1 15 15 (A) # EN (Bi) # EN PIX ENTON

PROP. = £ 1+ £2

(4) x EV, (3) x (EV, 12 x 2 EV2

Cu = = x1+x2 (3i) 1/11/2=20}

 $\omega = 3$

1=11 @ 12 @ 13 (=) A) RE1, B) X1E11, X2E12,

*36 13 cm *= *1+ *2+ *3

(Ja = (24 / 3) = 503

Bi 121 (11+13)=203

130 (N+Va) = 503

Example: In R? mation 11 = 2 () 10 ER] izi

12 = { (2) 1 26 R3.

Ami saisotoses iitapelles s/, 1/ meuse.

$$A_1(\mathcal{S}_1) \in \mathbb{R}_2 \qquad (\mathcal{S}_1) = (\mathcal{S}_1) + (\mathcal{S}_2) = (\mathcal{S}_2) + (\mathcal{S}_2) = (\mathcal{S}_1) + (\mathcal{S}_2) = (\mathcal{S}_2) + (\mathcal{S}_2) + (\mathcal{S}_2) = (\mathcal{S}_2) + (\mathcal{S}_2)$$

=, V1+V2 ER2

11 N2 = 5 (6) } = 5 Suma este directà.

By= NO NO estainit istanichmes Dote \$1, \$2, ..., &m EV Bi Q1, Q2, ..., Qm EK, westered sitaniulmas stremum se m±mp+...+ 1x sp+1x10 Rimieta de X1, X2, ..., Zm. niction, smitlemelier 122 witner es sintiser estainil suitaminumes etaat ? = < 2 > of 2 mile streamed $= \int_{i=1}^{\infty} \alpha_i \chi_i | m \in \mathbb{N}, \chi_1, ..., \chi_m \in S$ a1,..., amek } Brapatitie: 4) 5CV, mer stra <2> Viul la lairesteren uitazelur lucined não sim iom las eta is snitures to so sitzapeles (imuitusomi 10 S conventie 540 β = <Φ> ~ <Φ> = 8 ! sitemard Def: Multimea S se mumerte sistem de generatori V= <2> Back V withen (adica U JEV, (3) II, ..., Im & saiba) (3) QI,..., amek cu x = \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\)

tarenez tinif Cairestorn niteger stremum 2 V: folk
.V=<2> 22 (E) sock

: mpmax3

$$\mathcal{L}_{n} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}, \quad 0 = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}, \dots, \quad 0 = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}, \dots, \quad 0 = \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\omega_{m} = \begin{pmatrix} 0 \\ \vdots \\ 0 \end{pmatrix} \in \mathbb{R}^{m}.$$

Description (a)
$$= a_1 \cdot \begin{pmatrix} a_1 \\ a_2 \end{pmatrix} + a_2 \cdot \begin{pmatrix} a_1 \\ a_2 \end{pmatrix} + a_3 \cdot \begin{pmatrix} a_1 \\ a_2 \end{pmatrix} + a_4 \cdot \begin{pmatrix} a_1 \\ a_2 \end{pmatrix} + a_$$

$$dw. \begin{pmatrix} 0 \\ \vdots \\ 0 \end{pmatrix} = \sum_{i=1}^{n} d_{i} \cdot x_{i}$$