

x, y & l', & B & A (x + By) = d A x + BAy = d + 0 + p - 0 = 0 =) 4×137 € L' Lilace subpadii Line Subpatin xyelinde, diseis axelinde, Byelinde dxeli, (xeli), dxeli(xeli) dxtpgel, dxtpgelo >> dxtpgelo,ne Lives et shy (3) L, Cl. son Lich

Exemple de subspartie L=KlyJ, L'= 5 P(x) E Klx) I gred P(x) Ens. grad(P(x)+Q(x)) < max(grad P(x), grad Q(x)) L= Malk), L1= JAELIA=A* J, L2= JAELIA=-A* J LI, Le Sulpation L= Los Lz ABELIJABEK (LAHBB) = dAY + BBY = dALBB =) LA+ BBEL, Aven neuros: YAGL3! AIGL, AIGLLAI. AGAITAL A = A + A 2 , A = A 1 7 A 2 = A 1 - A 2

$$A_{1} = \frac{1}{2} (A + A^{2}) | \text{ Uniclotic Power Carbon Biology of the polynomial Poly$$

Exemple: - bala cama dink : e,=(1,0,0),...,e,=(0,0,...,0,1) (X1, X2) = x161-1 x261 - 1-12 13=3 (1,1,0), (2,0,1), (3,2,5)4 = { \$1,\$1,\$1,\$ Bat batin 123 + x en Dirixi x = x, fixxelixil x=(-13,6) (=) (9,5,6) = x(1,50) + x(1,0)+ x3(3,4,5) Mahae vintenti : (fil fulfs) = A · X2 +5X3 =C 13 18.13 bara => cet (8.18183) +0

A
$$\in$$
 L₂ A = $\begin{pmatrix} 0 & a_{12} & ... & a_{1n} \\ -a_{11} & 0 & ... & a_{1n} \end{pmatrix}$ = $a_{12} (E_{12} - E_{21}) + ... + a_{n-13} (E_{n-13} - E_{n-13})$
L₁ = $a_{13} - a_{13} + a_$

A:
$$\begin{pmatrix} 1 & 3 & 2 \\ 1 & 1 & 3 & 2 \\ 0 & 1 & 1 \\ 0 & 2 & 2 \end{pmatrix}$$

Py A: 2 => f - 1-2, base in L: $\frac{1}{2}(1,1,-1,3)$, $(3,1,1,3)$

Un, Um Ck Lim CV, , Um> = ng (U,1.1/Vm)

No abolic at de Lim A ace vector per cone M > prinjina

minul prima pol (cone Cont, in privaty)

Ex(9): $\frac{1}{2}$

Y = X

Eq. 5x =0 (=> (\(\tau_{1}\)_{2}\)_{3}

Vij c' ax = 0 kx

A: N-7 K

 $f = \sum_{k \in N} a_{k} = \sum_{k \in N} a_{k} = \sum_{k \in N} a_{k}$

$$T: K^{n} \longrightarrow K^{n} \qquad T(x) = A \cdot x \qquad A = \begin{pmatrix} a_{1}, \dots a_{1}, \\ a_{n}, \dots a_{n-n} \end{pmatrix}$$

$$Concert. \qquad T(x) = \begin{pmatrix} 1 & 1 & 2 \\ 3 & 1 & 3 \end{pmatrix} \begin{pmatrix} x_{1} \\ y_{2} \end{pmatrix} = \begin{pmatrix} x_{1} & x_{2} & x_{3} & x_{4} & x_{5} \end{pmatrix}$$

$$= \begin{pmatrix} x_{1} & x_{2} & x_{3} & x_{4} & x_{5} & x_{5}$$

$$T(x) = \begin{pmatrix} 1 & -1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \end{pmatrix}$$

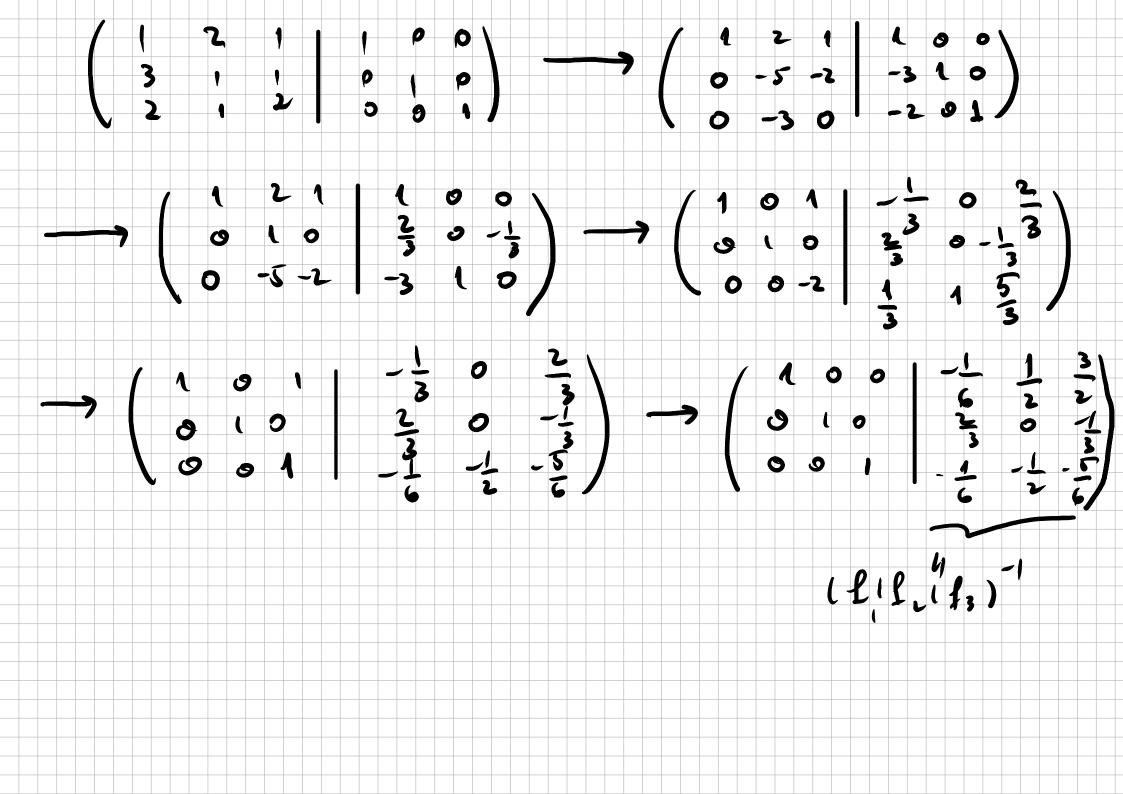
$$T(1,1) = 1 \cdot (1,0,1) + (-1)(1,1,0) + 3(0,1,1)$$

$$T(1,-1) = 0 \cdot (1,0,1) + 2(1,1,0) - 2(0,1)$$

$$[T]_{8}^{3} = \begin{pmatrix} 1 & 0 \\ -1 & 2 \\ 3 & -2 \end{pmatrix}$$

$$[T] = \begin{pmatrix} 1 & -1 \\ 1 & 1 \\ 3 & 3 \end{pmatrix}$$

$$T_{i}: L_{i} \rightarrow L_{i}, T_{i}: L_{i} \rightarrow L_{i}$$
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 $T_{i}: L_{i} \rightarrow L_{i}, L_{i}$
 $T_{i}: L_{i} \rightarrow L_{i}$
 $T_{i}: L_{i}: L_{i}$



L=1×6
$$R^3$$
1 x.+x. - x.=0, x.+x.=0)

A=(11-1)

Y: T*L-7; TO

X:=0

T:L-M: L-1 = 0 | X.+x., 0) | x.6 R 1 = (-1,1,0) >

T:L-M: L-1 = 0 | X.+x., 0) | x.6 R 1 = (-1,1,0) >

T:L-M: L-1 = 0 | X.+x., 0) | X.+x., 0 |

The T:
$$\mathbb{R}^{3} \to \mathbb{R}^{4}$$
 T(y) = $(x_{1}x_{2}-x_{3}, x_{1}-2x_{2}x_{3})$
 $2y_{1}-x_{2}$, $3x_{2}-2x_{3}$) LT) = $\begin{pmatrix} 1 & A & -1 \\ 1 & -2 & 1 \\ 2 & -1 & 0 \end{pmatrix}$
So that Kut mi hat.

YELLAT $\begin{pmatrix} x_{1}+x_{1}-x_{3}=0 \\ x_{1}-2x_{1}x_{3}=0 \\ 2y_{1}-y_{1}=0 \\ 2y_{1}-y_{1}=0 \\ 3x_{1}-1x_{3}=0 \\ 3x_{1}-1x_{2}=0 \\ 3x_{1}-1x_{3}=0 \\ 3x_{1}-1x_{2}=0 \\ 3x_{1}-1x_{3}=0 \\ 3x_{1}-1x_{2}=0 \\ 3x_{1}-1x_{2$

$$\lim_{T \to \infty} T = \left(\begin{array}{c} 1, 1, 2, 0 \\ 1, 1, 2, 0 \end{array} \right), \left(\begin{array}{c} -2, -5, 3 \\ 1, 1, 0, -2 \end{array} \right)$$

$$\lim_{T \to \infty} \lim_{T \to \infty} \left(\begin{array}{c} 1 & 1 & -1 \\ 0 & -3 & 2 \\ 0 & 3 & -2 \end{array} \right)$$

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$$\lim_{T \to \infty} \left(\begin{array}{c} 1 & 1, 2, 0 \\ 0 & 0 & 0 \end{array} \right), \left(\begin{array}{c} 1, -2, -1, 3 \\ 0 & 0 & 0 \end{array} \right)$$

$$\lim_{T \to \infty} \left(\begin{array}{c} 1 & 1, 2, 0 \\ 0 & 0 & 0 \end{array} \right), \left(\begin{array}{c} 1, -2, -1, 3 \\ 0 & 0 & 0 \end{array} \right)$$

T. di menimin , T. L >M don L=di- lat+di- LT.

$$R^{3} = \langle (1,1,1), (1,0,1) \rangle \otimes \langle (1,2,1) \rangle = \langle (1,2,1) \rangle$$

