EXAMEN

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- (D b)
- 3 6)
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$$\begin{array}{lll}
\textcircled{6a} & A = \begin{pmatrix} 3 & -1 & 1 \\ 2 & 0 & 1 \\ 2 & -2 & 9 \end{pmatrix} \\
P(\lambda) & = & \text{dit} (A - \lambda^{7}2) & = \begin{pmatrix} 3 - \lambda & -1 & 1 \\ 2 & -\lambda & 1 \\ 2 & -2 & 3 - \lambda \end{pmatrix} \\
& = \begin{pmatrix} \lambda - \lambda \end{pmatrix} \begin{pmatrix} \lambda - 2 \end{pmatrix} \begin{pmatrix} \lambda - 3 \end{pmatrix} \\
P(\lambda) & = & 0 & \Rightarrow & \lambda = 1 & \text{Min} & = 1 \\ \lambda_{2} & = & 2 & \text{Min} & = 1 \\ \lambda_{3} & = & 3 & \text{Min} & = 1 \\ \lambda_{3} & = & 3 & \text{Min} & = 1 \\ \lambda_{3} & = & 3 & \text{Min} & = 1 \\ \lambda_{4} & = & 2 & \text{tex} & \text{tex} & = & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & \text{tex} \\ \lambda_{1} & = & 2 & \text{(0, 12)} & \text{tex} & \text{left} \\ \lambda_{1} & = & 2 & \text{(0, 12)} & \text{tex} & \text{left} \\ \lambda_{2} & = & 2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & +3 & \text{tex} & = & 2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{tex} & -2 & \text{tex} & -2 & \text{tex} \\ 2 & \text{t$$

1/3 = 7 × CIR2 ( f(x) = 3x) 53×1-42+ ×3=3×1 1×1=2×2=) 4 2xx 1 + x3=3x2 =) 241 = 32 2+1-2+2+37=3=353 F3=3×2-2×1 X3=3X2-2x2  $+\Lambda=\pm z=\pm 3$ X3 = X2 VA3 = ? (2411×11×1) (x1 € 1R)= V/3 = < ? (1/1/1) {> dim V/3 = m3 = 1 dh = ? (0,1,1) } tuper im VM = l2 = e2te3 = (0,1,1) R2=2 (1,1,0) 9 teper im V2= l1+2=(1,10) R3=2 (1,1,1) 9 teper in V23 = l1+2+2= => leq, lez, lez proprie ai lui f 6) R= ? (1,1,0), (0,1,1), (1,1,1)] R reper daca f try A (max) = |R| => R e Shi [IR] = dim IR3 => R e bata dut A +0 => rg A = 3 = |R| => R e 861 PR |R| = dim (R<sup>3</sup>= 3 => R batar rupur 推出成年(011年)中华 u = l1+2 l2+ l3

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8. 2

$$\begin{array}{l}
\lambda_{1} = 2 \times \epsilon \mathbb{R}^{3} | f(x) = x \\
\begin{cases}
\frac{1}{3}x_{1} + \frac{1}{3}x_{2} + \frac{1}{3}x_{3} = x_{1} | 3 \\
\frac{1}{3}x_{1} + \frac{1}{3}x_{2} + \frac{1}{3}x_{3} = x_{2} | 3 \\
\frac{1}{3}x_{1} + \frac{1}{3}x_{2} + \frac{1}{3}x_{3} = x_{3} | 3
\end{array}$$

$$\begin{array}{l}
2x_{1} = x_{2} + x_{3} \\
2x_{2} = x_{1} + x_{3}
\end{array}$$

$$\begin{array}{l}
2x_{3} = x_{1} + x_{3}
\end{array}$$

$$\begin{array}{l}
2x_{4} = x_{2} + x_{3}
\end{array}$$

$$\begin{array}{l}
2x_{1} = x_{2} + x_{3}
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$$\begin{array}{l}
2x_{2} = x_{2} + x_{3}
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$$\begin{array}{l}
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2x_{1} = x_{2} + x_{3}$$

$$\begin{array}{l}
2x_{1} =$$

Aprile Gham-Schmidt:

$$l_1 = f_2 = (1,1,1)$$
 $l_2 = f_2 - f_{2,1,1}$ ,  $l_1,1,1$ )
 $l_3 = f_4 = (1,1,1)$ 
 $l_4 = f_4 = (1,1,1)$ ,  $l_4,1,1$ )
 $l_4 = f_4 = (-1,1,0)$ ,  $(-1,0,1)$ ,  $(1,1,1,1)$ )
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(8) dh: 
$$\begin{cases} x_2 = 0 \\ x_3 = 0 \end{cases}$$
 $ch: \begin{cases} x_1 = x_2 = x_3 = t \\ 0 = 0 \end{cases} \end{cases} \Rightarrow \begin{cases} x_1 = t \\ x_2 = 0 \end{cases}$ 
 $ch: \begin{cases} x_1 = x_2 = x_3 = t \\ 0 = 0 \end{cases} \end{cases} \Rightarrow \begin{cases} x_1 = t \\ x_2 = 0 \end{cases}$ 
 $ch: \begin{cases} x_2 = 0 \\ x_3 = 0 \end{cases} \end{cases} \Rightarrow \begin{cases} x_2 - t = 0 \\ x_3 = 0 \end{cases} \Rightarrow \begin{cases} x_2 - t = 0 \\ x_1 = x_3 \end{cases} \Rightarrow \begin{cases} x_1 - x_3 = 0 \end{cases} \Rightarrow \begin{cases} x_1 = t \\ x_2 = t \end{cases} \end{cases} \Rightarrow \begin{cases} x_1 - x_3 = 0 \end{cases} \Rightarrow \begin{cases} x_1 - x_1 = 0 \end{cases} \Rightarrow \begin{cases} x_1 -$ 

=) N=0

 $P_{1}(0_{1}0_{1}0); P_{2}(0_{1}N_{1}0); P_{1}P_{2}(0_{1}N_{1}0)$   $d: x_{1}-0 = x_{2}-1 = x_{3}-0$   $d: x_{1} = x_{2}-1 = x_{3}$   $0 = x_{1} = x_{2}$   $0 = x_{2} = x_{1}$   $0 = x_{1} = x_{2}$   $0 = x_{1} = x_{2$ 

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(a) a) dut 
$$A = \frac{1}{43} \begin{vmatrix} -3 & -2 & 6 \\ 6 & -3 & 2 \\ 2 & 6 & 3 \end{vmatrix} = 1$$

A.  $A^{T} = \frac{1}{49} \begin{pmatrix} -3 & -2 & 6 \\ 6 & -3 & 2 \\ 2 & 6 & 3 \end{pmatrix} \begin{pmatrix} -3 & 6 & 2 \\ 6 & -3 & 6 \\ 2 & 2 & 3 \end{pmatrix}$ 

At  $A = 1$   $J = 2$   $f \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J = R_{2}$   $f \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J = R_{2}$   $f \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J = R_{2}$   $f \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J = R_{2}$   $f \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J = R_{2}$   $J \in O(\mathbb{R}^{3})$  de Apeta 1

A.  $A^{T} = J_{3}$   $J \in O(\mathbb{R}^{3})$  de Apeta 1

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A.  $A^{T} = J_{3}$   $J \in O(\mathbb{R}^{3})$  de Apeta

3×3-10×2=-2×3 -10×2=-5×3=) (2×2=×3)  $(x_1, x_2, x_3) = (\frac{1}{2}x_3, \frac{1}{2}x_3, \frac{1}{2}x_3, \frac{1}{2}x_3) = x_3(\frac{1}{2}, \frac{1}{2}, 1) =$ = 1x3 (1,1,2) => <2 (1,1,2) > axa de 

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