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$$U_{1} = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \quad U_{2} = \begin{pmatrix} 2 \\ -1 \end{pmatrix} \quad U_{3} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \quad U_{4} = \begin{pmatrix} -1 \\ 1 \end{pmatrix} \\
0 \end{pmatrix} \quad W \in \mathbb{R}^{3} \quad W = \begin{pmatrix} X \\ \frac{1}{2} \end{pmatrix} \quad W = \lambda_{1} U_{1} + \lambda_{2} U_{2} + \lambda_{3} U_{3} + \lambda_{4} U_{4} \\
0 \end{pmatrix} \quad W = \begin{pmatrix} X \\ \frac{1}{2} \end{pmatrix} \quad W = \lambda_{1} U_{1} + \lambda_{2} U_{2} + \lambda_{3} U_{3} + \lambda_{4} U_{4} \\
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0 \end{pmatrix} \quad W = \lambda_{1} U_{1} U_{2} + \lambda_{2} U_{4} U_{4} U_{4} U_{4} U_{4} + \lambda_{3} U_{4} U_{4} + \lambda_{3} U_{4} U_$$

$$\begin{cases} U_{1}, U_{2}, U_{3} \end{cases} \text{ Somo bose ?} \\ \lambda_{1} U_{1} + \lambda_{2} U_{2} + \lambda_{3} U_{3} = 0 \\ \lambda_{1} \begin{pmatrix} 1 \\ 0 \end{pmatrix} + \lambda_{2} \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix} \end{cases} , \lambda_{3} \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \\ \lambda_{1} + 2\lambda_{2} = 0 \\ \lambda_{1} - \lambda_{2} = 0 \end{cases}$$

$$\begin{cases} \lambda_{1} = 0 & \text{e}^{-1} \text{ MD} \\ \lambda_{2} = 0 & \text{gase} \\ \lambda_{3} = 0 \end{cases}$$

$$\begin{cases} \lambda_{1} = 0 & \text{e}^{-1} \text{ MD} \\ \lambda_{2} = 0 & \text{gase} \\ \lambda_{3} = 0 \end{cases}$$

$$\begin{cases} U_{1} = 0 & \text{gase} \\ V_{2} = 0 & \text{gase} \\ V_{3} = 0 & \text{gase} \\ V_{4}, V_{4}, V_{3} \end{cases}$$

$$\begin{cases} U_{1} = 0 & \text{gase} \\ V_{3} = 0 & \text{gase} \\ V_{4}, V_{4}, V_{3} \end{cases}$$

$$\begin{cases} V_{1} = 0 & \text{gase} \\ V_{3} = 0 & \text{gase} \\ V_{4}, V_{4}, V_{3} \end{cases}$$

$$\begin{cases} V_{1} = 0 & \text{gase} \\ V_{3} = 0 & \text{gase} \\ V_{4}, V_{4}, V_{3} \end{cases}$$

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$$\begin{cases} V_{1} = 0 & \text{gase} \\ V_{1} = 0 & \text{gase} \\ V_{2} = 0 & \text{gase} \end{cases}$$

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$$V_{1} = 0 & \text{gase} \end{cases}$$

$$V_{2} = 0 & \text{gase} \end{cases}$$

$$V_{3} = 0 & \text{gase} \end{cases}$$

$$V_{4} = 0 & \text{gase} \end{cases}$$

$$V_{5} = 0 & \text{gase}$$

$$V_{7} = 0 & \text{gase}$$

$$V_{7}$$

$$\begin{cases}
2 = \lambda_{1} + \lambda_{2} \\
1 = \lambda_{2} \\
0 = \lambda_{1} - \lambda_{2} + \lambda_{3}
\end{cases} \quad \begin{cases}
\lambda_{1} = 1 \\
\lambda_{2} = 1 \\
\lambda_{3} = 0
\end{cases}$$

$$ESECCIO 3$$

$$Ri x 1 < 2$$

$$p(x) \cdot 2x^{2} + 1$$

$$Dore le sue coordinate rispetto alla base$$

$$q_{1}(x) = x^{2} + 1 \quad q_{2}(x) = 2x^{2} + x - 1 \quad q_{3}(x) = 1$$

$$p(x) = \lambda_{1}q_{1}(x) + \lambda_{2}q_{2}(x) + \lambda_{3}q_{3}(x)$$

$$+\infty \cdot 2x^{2} + 1 = \lambda_{1}x^{2} + \lambda_{1} + 2\lambda_{2}x^{2} + \lambda_{2}x - \lambda_{3} + \lambda_{3}$$

$$= (\lambda_{1} + 2\lambda_{2})x^{2} + \lambda_{2}x + (\lambda_{1} - \lambda_{2} + \lambda_{3})$$

$$\begin{cases}
2 = \lambda_{1} + 2\lambda_{2} \\
0 = \lambda_{2}
\end{cases} \quad \begin{cases}
\lambda_{1} = 2 \\
1 = \lambda_{1} - \lambda_{2} + \lambda_{3}
\end{cases} \quad \begin{cases}
\lambda_{1} = 2 \\
2; 0; -1
\end{cases}$$

$$\begin{cases}
2 = \lambda_{1} + 2\lambda_{2}
\end{cases} \quad \begin{cases}
\lambda_{1} = 2 \\
\lambda_{2} = 0
\end{cases}$$

$$\begin{cases}
\lambda_{1} = 0 \\
\lambda_{3} = -1
\end{cases}$$

$$(2; 0; -1) \quad SONO \ (e \ COORDIN. D1 \ q(x))$$

$$\begin{cases}
2q_{1}(x) + 0q_{2}(x) - 1q_{3}(x) \\
= 2(x^{2} + 1) + 0 - (1) \\
= 2x^{2} + 2 - 1 = 2x^{2} + 1 = p(x)
\end{cases}$$

ESERUZIO 4

W =
$$\langle \begin{pmatrix} 1 \\ 0 \\ 1 \\ 0 \end{pmatrix}, \begin{pmatrix} 3 \\ 1 \\ 0 \end{pmatrix} \rangle$$

U. $\int X_1 - 2X_2 = 0$
 $\int X_3 - X_4 = 0$

Determinate that base a track base difficulty $\int X_1 + X_2 = 0$
 $\int \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_3 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_2 \\ X_4 \\ X_5 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\ X_3 \end{array} \right) \left(\begin{array}{c} X_1 \\ X_1 \\ X_2 \\$

∫ λι+ 2λ2 =0	\ \\ \lambda z = 0	e base	
V 2+ 24 = 0	λμ=0		
$\lambda_1 + \lambda_4 = 0$ $\lambda_1 + \lambda_3 = 0$) λ _n =0		
λs=0	λ3 = 0		
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