Coordenadas, exemplos.

Obtenha as matrizes de coordenadas, em relação a cada uma das bases B e C, do vetor

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$$M = \begin{pmatrix} 1 & -3 \\ 5 & 1 \end{pmatrix}$$
 $LuJ_B = LuJ_C$ 
 $LuJ_C = \begin{pmatrix} a \\ b \\ d \end{pmatrix}$ 
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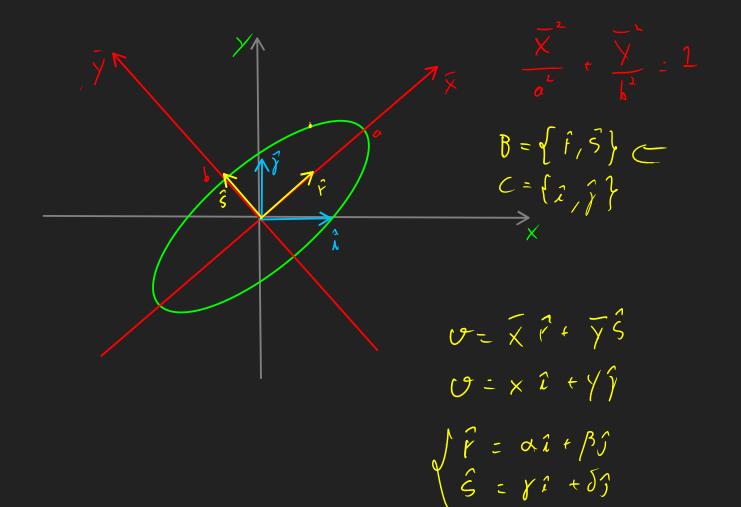
$$\begin{cases}
a = 1 \\
b = -3
\end{cases} = \sum u c = \begin{bmatrix} 1 \\ -3 \end{bmatrix}$$

$$c = 5 \\
d = 1$$

$$c = 6 \\
c = 7$$

$$c = 6 \\
1$$

$$B = \begin{cases} \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 &$$



Espaço dos polinômios

$$h = 2 - 3t + 6t + 2t^{3}$$

$$Lu_{2} = \begin{bmatrix} a \\ b \\ c \end{bmatrix} \leftarrow [\mu ]_{2}$$

$$M = a \cdot 1 + bt + ct^{2} + dt^{3}$$

$$2 - 3t + t^{2} + 2t^{3} = a \cdot 1 + bt + ct^{2} + dt^{3}$$

$$\begin{cases} a = 2 \\ b = -3 \end{cases} \Rightarrow [\mu]_{2} = \begin{bmatrix} 2 \\ -3 \\ 1 \\ 2 \end{bmatrix}$$

$$\begin{bmatrix} c = 1 \\ b \\ c \end{bmatrix} \qquad w = ae_{1} + be_{2} + ce_{3} + de_{4}$$

$$3 - 2t - t^{2} = a + bt + ct^{2} + dt^{3}$$

$$\begin{cases} a = 3 \\ b = -1 \\ c = 1 \\ d = 0 \end{cases} \Rightarrow [\mu ]_{2} = \begin{bmatrix} 3 \\ -1 \\ -1 \\ 0 \end{bmatrix}.$$

$$B = \begin{cases} 1 & 1-t, 1-2tr t', 1-3t + 3t'-t' \end{cases}$$

$$M = 2-3t + t' + 2t' \qquad \omega = 3-2t - t'$$

$$CmJ_B = \begin{bmatrix} a \\ b \\ c \\ d \end{bmatrix} \qquad \omega = a c_1 + b c_2 + c c_3 + d c_4$$

$$2-3t+t'+2t' = a \cdot 1+b (1-t)+c (1-xt+t')+d (1-xt+t')$$

$$\begin{bmatrix} u \end{bmatrix}_{B} = \begin{bmatrix} 1 \\ -5 \\ 1 \\ -2 \end{bmatrix}$$

$$\int_{-b}^{a+b} a + b + c + b = 3$$

$$-b - 2c - 3d = -2$$

$$-c + 3d = -1$$

$$-d = 0$$

$$\begin{bmatrix} a + b + c + b = 3 \\ -b + 2 = -1 = > b = 4 \\ c = -1 \\ d = 0$$