lunes 24/10/22

En le clese de Hoy ex considers de sisteme vo Homogénes:

$$\begin{pmatrix} x^{1}(t) \\ y^{1}(t) \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} x^{1}(t) \\ y^{1}(t) \end{pmatrix} + \begin{pmatrix} e^{t} \\ e^{-t} \end{pmatrix} \begin{pmatrix} s_{NH} \end{pmatrix}$$

se dijo per el vector

$$Y(t) = {\binom{u+1}{v(t)}} = \frac{1}{4} \left(\frac{(2+1)(e^{t} - e^{-t})}{(2+1)(e^{t} + e^{-t})} \right)$$

es solucions de (5vH).

Pere comprober la anterior, debeures vinificar my ' 7 (6) = (mits) es tel

$$\mathcal{T}^{1}(t) = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \mathcal{T}(t) + \begin{pmatrix} e^{t} \\ e^{-t} \end{pmatrix}$$

$$\frac{1}{9} : [a,b] \subseteq IR \longrightarrow IR^{2}, derivable$$
whence $\frac{1}{9}(b) = (\frac{1}{9}, \frac{1}{10}, \frac{1}{10})$

whence $\frac{1}{9}(t) = (\frac{1}{2}t^{2} + \frac{1}{2}t^{2} - 2t)$

whence $\frac{1}{9}(t) = (\frac{1}{2}t^{2} + \frac{1}{2}t^{2} - 2t)$

$$\frac{1}{9}(t) = \frac{1}{9} \underbrace{1}_{0} \left(\frac{1}{2}t^{2} + \frac{1}{2}t^{2} - 2t \right) \left(\frac{1}{2}t^{2} + \frac{1}{2}t^{2} - 2t \right) \left(\frac{1}{2}t^{2} + \frac{1}{2}t^{2} + \frac{1}{2}t^{2} - 2t \right) \left(\frac{1}{3}t^{2} + \frac{1}{2}t^{2} +$$

Por etra parte, reamos el valor de

$$= \left(\frac{1}{4}(2+1)e^{+} + \left(\frac{2+}{4} + \frac{3}{4}\right)e^{+}\right)$$

$$= \left(\frac{1}{4}(2+1)e^{+} - \left(\frac{2+}{4} - \frac{5}{4}\right)e^{-+}\right)$$

a y'(t) (como se ve de (x).)

