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$$\frac{d\overline{x}}{dt} = \alpha(t) \overline{x} = 0 \cdot e^{\frac{1}{2}(t^2 - 1)^{\frac{1}{2}}} = 0 \cdot e^{\frac{1}{2}(t^2$$

Médada van courst det junctye ((t) a. n. rett) = c(t) (t2-1) = pa verif. ec. Bernou Eli (1)

$$= \frac{dc}{dt} = \frac{t}{2(t^2-1)^{\frac{1}{2}}} \cdot \frac{1}{c}$$

$$= \frac{dc}{a(t)} = \frac{1}{b(t^2)}$$

$$b_1(c)=0$$
 => $\frac{1}{c}=0$ =1 and are not stoppanone

Separam vorial order

$$\frac{dc}{c} = \frac{t}{2\sqrt{4c_1}} dt$$

$$\int c dc = \frac{c^2}{2}$$

$$\int \frac{t}{2\sqrt{4c_1}} dt = \frac{1}{2} \int (\sqrt{4c_{-1}}) dt = \frac{1}{2\sqrt{4c_{-1}}} + \frac{1}{2\sqrt{4c_{-1}}} +$$

$$\frac{2}{2} = 1$$

$$\frac{1}{2} = 1$$

Ec. Ricodti

$$\frac{\partial \mathcal{L}}{\partial t} = \alpha(t) \, \mathcal{A}^2 + b(t) + c(t)$$

$$\alpha_1 b_1 e : I \subset \mathbb{R} - \gamma \, \mathbb{R} \quad \text{functor continue}$$

Resolvaires granquis curvostères unei sol particulare la De efectueaté solvinulaires de van sett) = 4tt) + 6(t), corq (x= 4+6)

roudua da ec Bernoula' Ez The ecuadro x = -22+2+x+5-t2 (2) terr 2) Shahnede tyno ecuation fe rol a by Determinate mineran. Polt - metru sa ment eca) c) Set multipol ecia) d) Det-solutio care verifico condispo a(1)=3 a) & Riccati $\Theta(f) = -T$ p(f) = 3 f c(+) = 2-45 b) Gulowing to a ec. (pe x cu po) in = - (inftin) + St(inftin) +2+ 5 - A-feB (Mitten)) m = - (ungits + sun un+ + ng) + sunts + sunt + 2-4s un = -mot g - summt + on 5 + sunt of + gint + 2 - f 5 $u = f_3(-u_3 + 3un - r) + f(-3un + 9u) + 2 - u_3$ $\begin{cases} -(m-1)^{2} = 0 \Rightarrow m=1 \\ -2mm + 2m = 0 \end{cases} \Rightarrow m=1$ $\zeta - u_g + 3ur - T = 0$ < - 2mn + 2n = 0 1 5-u2=m Pott) = ++2 (ou) Po (t) = t-2 c) S.a.: a=4+6 =1 x=4+++2 at (2)+++2)=-(4++2),+2+(2+++2)+2-+3 (4)+1) = - (y2+22+2++ 2yt + 4+ 4y) + 2ty + 2t + 4+5-t2 yth = -y2-t2-4-2yt-4t-4t-4y+2t2+2t2+4t+5-t2

$$\frac{4(1)=3}{1-Qe^{-4}} \Rightarrow \frac{4Qe^{-4}}{1-Qe^{-4}} + 3 = 3$$

$$\frac{4Qe^{-4}}{1-Qe^{-4}} = 0 \Rightarrow Q = 0$$

$$\frac{1-Qe^{-4}}{1-Qe^{-4}} = 0 \Rightarrow Q = 0$$

Tema

Det mult not ec wing.

date one od particularo $e_0(t) = \frac{1}{4}$ and $e_0(t) = \frac{1}{4}$ and determine Gothy solutive can verif. $e_0(-1) = 0$

a)
$$\frac{dx}{dt} = x^2 - \frac{3}{2}x + \frac{1}{12}$$
) $+ \epsilon(0, \infty)$