Lista 10 - EDO- Rasgina Vinica (Resportars)

3) 
$$x(t) = C_1 e^{(-\frac{1}{2} + \sqrt{6})t} + C_2 e^{(-\frac{1}{2} - \sqrt{6})t}$$
;  $y(t) = C_1 e^{(-1 + \sqrt{10})t} + C_2 e^{(-1 - \sqrt{10})t}$ 

(4) = 
$$C_1 e^{\left(\frac{-1+\sqrt{u_1}}{2}\right)t} + C_2 e^{\left(\frac{-1-\sqrt{u_1}}{2}\right)t} + C_3 e^{\left(\frac{-1+\sqrt{u_1}}{2}\right)t} + C_3 e^{\left(\frac{-1+\sqrt{u_1}}{2}\right)t}$$

(37) 
$$t = C_1e^{(-17)t} + C_2e^{(-17)t}$$

(a) 
$$x(t) = C_1 e^{\left(\frac{5+\sqrt{33}}{a}\right)t} + C_2 e^{\left(\frac{5-\sqrt{33}}{a}\right)t} + C_3 e^{\left(\frac{5-\sqrt{33}}{a}\right)t} + C_3 e^{\left(\frac{5-\sqrt{33}}{a}\right)t}$$

$$(8) = C_1 e^{\left(-\frac{3+\sqrt{3}}{2}\right)} + C_2 e^{\left(-\frac{3-\sqrt{5}}{2}\right)} + C_3 e^{\left(-\frac{3-\sqrt{5}}{2}\right)} + C_4 e^{\left(-\frac{3+\sqrt{5}}{2}\right)} + C_4 e^{\left(-\frac{3+\sqrt{5}}{2}$$

9), 
$$\chi(t) = C_1 e^t \cos(\sqrt{6}t) + C_2 e^t \sin(\sqrt{6}t)$$
;  $\gamma(t) = C_1 e^t \cos(\sqrt{6}t) + C_2 e^t \sin(\sqrt{6}t)$ 

Ibrerocão: todo o desenvolvimento se encontra mas parginas posteriores.

$$\int \frac{dx}{dx} = 2x - 3y = 5 \\
\int Dy - y = 4x = 0 = 0$$

$$\int x(D-2) + 3y = 0 = 0$$

$$\int x(D-2) + 3y = 0$$

$$\int y(D-1) - 4x = 0$$

$$\int x(D-3) + 3y = 0$$

$$\int x(D$$

Descrições: \* é referente ao ristema linear detrocondo mo topo de todas as revoluções.

Digitalizado com CamScanner

$$\begin{cases}
\frac{dx}{dt} = x + 2y & \text{order} & \text{forder} & \text{for$$

(grothmorph 3

$$D \times X(t) = C_1 e^{-(\frac{t}{2}+\sqrt{6})}X + C_2 e^{-(\frac{t}{2}-\sqrt{6})}X$$
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