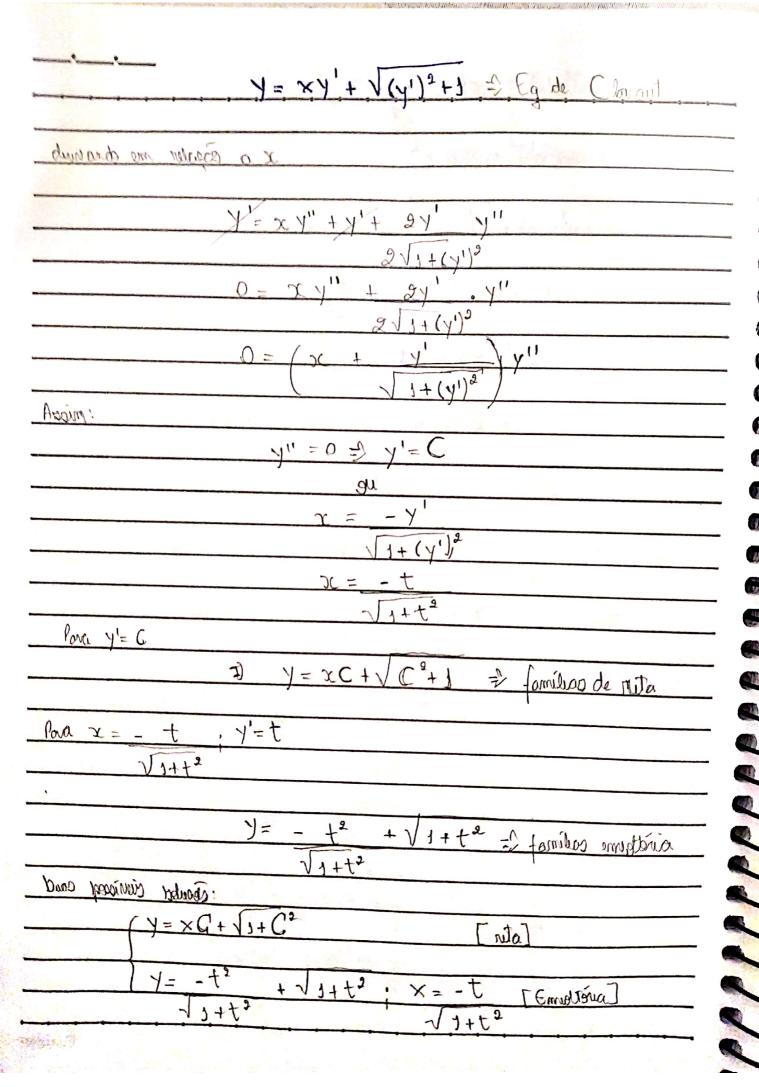
Coulos Luilgues Minerda Sontes	-
20150465	
Lista 3 - CIV	
I) $x^3y' + x^2y - y^2 = 2x^4$	
$y' + y - y^2 = 2x$	-
X X,	1
y' = y2 - y + 2x => Eq. de Viceati	
x_3 x	
· Salveag protogolos	
$\frac{1}{1} = \frac{x^2}{1} \qquad \frac{1}{2} \times \frac{2}{1} \times $	
Y'= 2x	
9x=X-X+2x	
9×= 2× /	
Market to the first for the fi	
V = X2 i souco particular	
Avoim	
7= y-x2-1 y= 2+x2	
y'= 2'+2x	
$\left(\frac{7}{2} + 9 \times\right) = \left(\frac{2}{2} + \times^2\right)^2 - \left(\frac{2}{2} + \times^2\right) + 2 \times$	
X ³ X	
2'+2x = 22+22x2+x4 - E - x + 2x	
×° x	
Z'= Z'+2Z/+X-#-X	
× ³ × ×	
7' = 2' + 2 = 2 Eg di Barralli	
X3 X	

$\frac{7}{2} = P(\alpha) \frac{2}{2} + Q(\alpha) \frac{2}{2}$ $\frac{1}{2} = P(\alpha) \frac{2}{2} + Q(\alpha) \frac{2}{2}$
$z = 2 \neq 0 \neq 3$
$\frac{7' = \frac{7}{2} + \frac{1}{2^2}}{\times \times^3} \stackrel{?}{\sim} 7^2$
2' = 1 + 1
$\frac{1}{2^2} \times t \times \frac{3}{2}$
× ×3
$V = \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$
$\mathcal{L}' = \mathcal{T}^{-2}\mathcal{T}'$
$\frac{u' = 1 u + 1}{x} = \frac{1}{x} \text{ Linear}$
$\mu' + A(x) \mu = B(x)$
$A(x) = -\frac{1}{2}x + b(x) = \frac{1}{2}x^3$
$\mathcal{U}(x) = \int \left(\int (x) \mathcal{D}(x) dx + \mathcal{O} \right)$
$\int (x)$
$\frac{J(x)}{J(x) = e^{\int \frac{1}{x} dx}} \frac{J(x)}{J(x)} = e^{\int \frac{1}{x} dx} \frac{J(x)}{J(x)} = e^{\int \frac{1}{x} dx$
x^2 1 dx \Rightarrow 1 dx \Rightarrow - $\frac{1}{2}$ + C
$\mathcal{U}(x) = \frac{1}{1} \left(-\frac{1}{1} + C \right)$
x^{-1}
$-\frac{\lambda(x)=x(-1/x+C)}{(-1/x+C)}$
$x = \frac{1}{2} = $
$\overline{z} = 1$ $\Rightarrow \overline{z} = y = x^2 \Rightarrow y = 1 + x^3$
$\times (-1/x+C)$ $\times (-1/x+C)$



II) y = xy'+ V(y')2+3 = Eg de Clarent. xG+ 11+C3)=xG+V(G)2+1 111) xy"= y"+x(y")2 v'= マ+x(v)2 J'- 12 = 2º = Eq. de Bernaulli 1=1-1 = 1= (1-4) 1 = 1= 1= -1 = -1 = -1/2= -1/2= λ, = -λ, - × = 1 -v'-v=1=) Eq. Lunor Try moti

