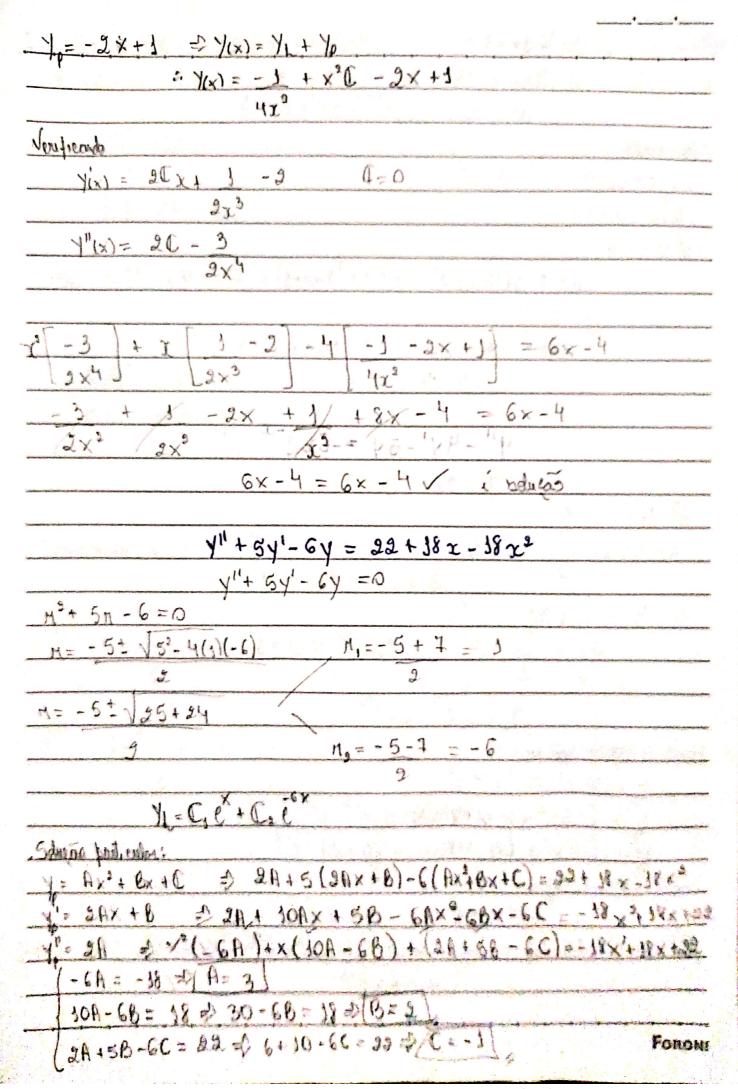
arbos Lielques Amarda Santos	
10150465	The state of the s
	16
22 11 + 2 1 - 44	$= 6x - 4, Y_1 = x^2$
1, 1, + Il, - Hl =	= 0
1 = x2; X = 3x; X	
x2(0)+ x(0x) - 4(x)	)=0 \
Augum: : X3	
7" L 1 V' - Y	y = 0
x x <sup>2</sup>	4 3
Paa férmala de Abel: (000)de	
Ma féveralo de Abel:  Y = Y ( e [P(x)dx dx =)	-1
3 /1/2	
p(x) = 1/x = -   1/x dx = - ln   x   = = = = = = = = = = = = = = = = =	$x^{-1} \Rightarrow x^{-1} dx \Rightarrow x^{-5} dx$
$p(\mathbf{i}) = 1/\chi = 1/\chi = 1/\chi$	(X <sub>5</sub> ) <sub>3</sub>
-4 1x, = -1 + (x,)	-1 +C]
-4 4x4 13	4x4
Y= -1 + x2 C	
\\   \qq	
Acrim, a three particular:	
Ye= Ax2+Bx+C	
8+xAB	
14" = 2A	
x2(2A) + x(2Ax+B) - 4(Ax2+Bx+C)	$= 6x - 4 + x_{30}$
20x2 +20x2+0x -40x-40x-40	=6x-41
7° (4A-4A)+x(-3B)-4C = x:04	6x-4
A=0; -38=6=0 B=-2; C	= 44



$1/2 = 3x^{2} + 9x - 1$ $1/2 = 3x^{2} + 9x - 1$	
: Y(x) = 1/2 + 1/p y(x) = C,ex + C	$e^{-6x} + 3x^2 + 2x - 1$
Ventreards	The state of the s
C'=0, C'=0	
$\sqrt{(x)} = 6x + 9$	
(c) + 5(6x+3) -6	$(3x^2+2x-1) = 22+18x-18x^2$
E + 30×+10 - 18>	(2-12×+6 =
$x^2 + 18x - 18x^2 =$	92+18x-18x2
: Y(x)	= C, ex + C, e6x + 3x2+2x-1 i dues!
y"-4y'-9	5y = -6xe-x
y11- Hy'-5	
M3-4M-5=0	
N= 4 ± V(-4)2 - 4(4)(25) 11 16 + 1	11=4+16-=15+11
2	. 2
n= 4± 16+20	
2	1= 4-6 = -1
	3x
Y = C, e x + C	. e''
Arrived, a reducace post, when:	
1 = (Ax3+6x)e-x	
$\frac{1}{\sqrt{1 - (-A \times^2 + (-b + 2A) \times + )}}$	
- Y = (AX2+ (B-4A)X -	2012 RIC
Suichland to sail	-6xe <sup>x</sup>
J' [ (0 - 10 - 40) x 20 190)	-4 (-8+2A)x+8)-5(Ax+8x)
	×6/x

[ A x2+ (B-4B)x - 2B+ 2B+ 4A x2+ (+4B-8A)x-4B-5Ax2-5Bx=-6
X2(A+4A-5A)+X(B-4A+4B-8A-5B)+(-2B+2A-4B)=-6X
$A = \frac{1}{2}$ $-6B = -1$
B 2A - 6B = 0 B = 36
Ausim: $y = (y_1 \times^2 + y_2 \times) e^{-x}$
$\frac{1(x) = 1 + 10}{100}$ $\frac{1(x) = 1 + 10}{100}$ $\frac{1(x) = 10}{100}$
KART 3 T A STATE OF STREET
Verificando, considerado C, = Co = O
$=(x^{2}/2+x^{2}/6)e^{-x}$
$y'(x) = (-3x^2 + 5x + 1)e^{-x}/6$
$y''(x) = (3x^2 - 11x + 4)e^{-x}/6$
Substituted na 600:
$y'' - 4y' - 5y = -6xe^{-x}$
$e^{x} \left[ \frac{(3x^{2}-3)x+4}{6} \right] - \frac{4(-3x^{2}+5x+1)}{6} - \frac{5(x^{2}+x)}{6} = $
[ ] 6 [ ] 6 [ ]
-X 1 A /a
$e^{x}$ $3x^{2}$ - $11x + 44 + 12x^{2}$ - $20x - 44 - 15x^{2}$ - $5x = $
6
$e^{-x} \left[ -36 \times \right] = -6 \times e^{-x}$
= 1(x)=(x/2+x/6)ex e tolução
$y''-y'+y=e^{x}(2+x)bonx$
TI = C (2+ X) bonx

	y" - 1' +7	= 0		
- A		194 194 1942		
43-4 +7	=0	M= 1 + V-3		1 1
1=1+	VI-4(1)(1)	2	1=11/31	
	2	M=1= V3i /	2	
N= 1±	11-4	2 0	1,=1-13i	
	Z NY		2	:
	$y = C, e^2 \omega_0$	136×1+C= 23	200 (13/2 X)	
Arouim, umo	rdución patientos:	· ·		
	y"-y'+y= 2	expux + xexp	NX.	
	.1		man de la companya del companya de la companya del companya de la	
Ø Y'	-y'+ y = 2e* mmx		· Art	
(3) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- Y'+Y = xex bux		4	
13 (1	- 1 + 1 = TE PAUX			
	Y(x) - 1	12 + 4p + 4p	ni Pirani	
	Y(x) = C, e p	( ( ( ) + C 2 e	1-m (120x) +	
	+ Lex (- 2eg	(x)	DOM ( 28.7 7 ***)	
		11		-
	W. W.			
				-
i de la constanta				
102		N. Carlotte		
	MISS CANTON			

) x
$y'' - y' + y = 2e^{x} \text{ km} x$
Pagen:
1 = ex(Besex + C bunx)
y'= e×(Beax-Brownx+Ceax+Comx)
$\frac{1}{1} = e^{x}(-2\theta \text{ bun} x + 2C\cos x)$
Substituted:
ex (1-28 poinx + 2C loox)-(Beox-Boox+Ceox+Cbonx)+(Beox+Cbonx
= 20× 20mx
bonx[-9B+B-C+C]+00x[2C-B-C+B] = 2 bonx
- b = 2 - b = -2
C = O
$y' = 90^{\times}$
$y_{p} = 2e^{x} (y_{0}mx - e_{0}x)$
The As way
Salistification :
[4expmx]-[2ex(pmx-exx]]+-2ex(exx)=
ex[4 bunx - 2 bunx + coox - coox] = 2 ex bunx /
$ (x) y'' - y' + y = xe^{x} xe^{x} xe^{x} $