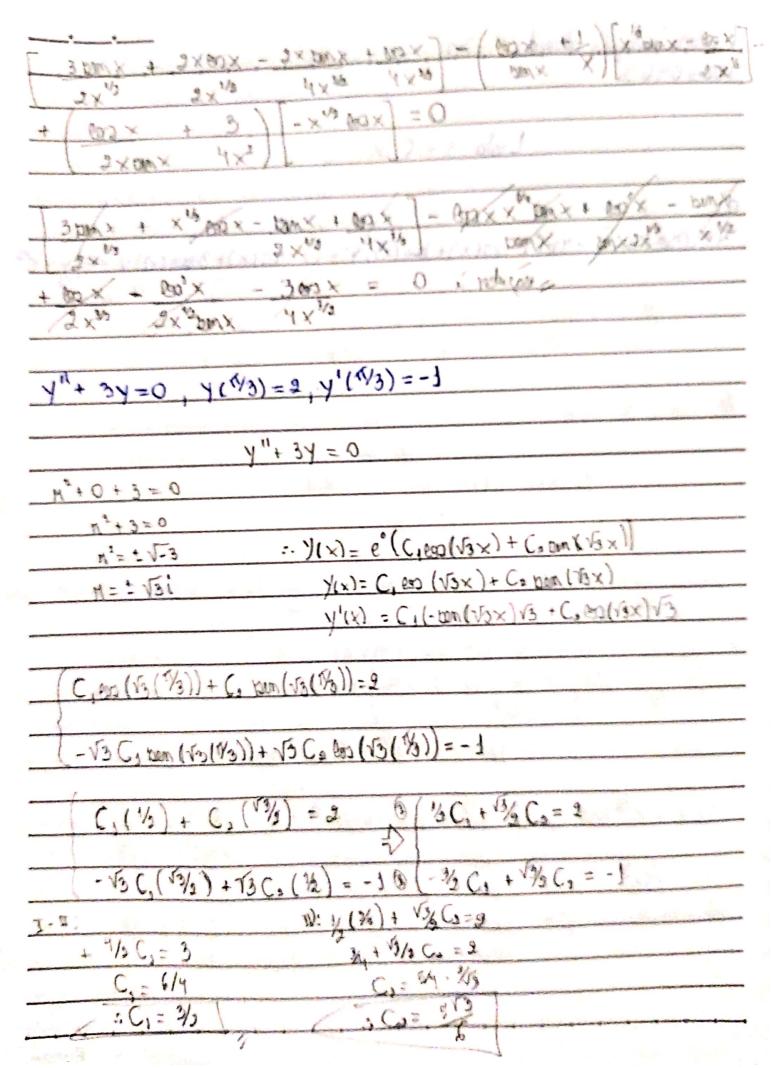
Carlos Luilanes Almeida Santes	
Larles Luilguer Almeida Santes.	
	and the state of the same of t
Lista 4 - CII	
<u>a)</u>	N/
4x2 (10m(x))4"-4x(x 6x)(x)+ bom(x))4+ (3xcas	$(x) + 3 pow(x) / \lambda = 0 (\lambda^2 + x)$
	= "(= (((())
	3 y=0
xmax X / 2xmax	423)
1-=(EV), V 8=(CVOF OFKE OFF
Pelo traemo de Abel:	
Pendx	
/2 (x) = /(x). e dx	
$\frac{1}{2}(x) = \frac{1}{2}(x) \cdot \frac{1}{2} $	
The problem of white the little	
I NOW IN	x+ 1 dx u= bax, du-boxh
Jan'x X	lmwx1x1m1x1
=> 2 dr + 1/2 dx => lm kunx + lm x => e	= X bun X
$\frac{1}{2} \left \frac{1}{2} \frac$	$\times \sqrt{2} \left[-\log x \right] + C$
$\frac{1}{(\times^{1/2})^2}$	
$\therefore \mathcal{Y}(x) = C_1 x^{V_3} - C_3 (x^{V_3})$	X
$y_{2} = - \times \frac{3}{2} \log x $ $y_{3} = \times \frac{1}{3} \log x - \frac{1}{3} \log x - \frac{1}{3} \log x + \frac{1}{$	= 3 bunx + 2×cox - 2×bmx +.
	2×13 2×13 1×72
+ less x/4 x 3/9	Lead of the second
Substituinds: y"- (85) x + 1) y + (89) x	+ 3 / 1=0
xoux X) () xoux	('ux')



$\therefore V(x) = (\frac{3}{2})_{(2)} (x)$	(5/3x)+(5/3/2)pun (15x)	Landa.
	Land to the land of the	1 7017
Vivi freambo.		1111
y'n = - 3C, ex (v3x) - 3C2 bon (v3x)		
(-36, los (v3x) - 3Co pon (v3x)) +	3(10,00)(13x)+C2 tom(1/3x))) = 0 V
y''-6y'-7y=0 $n=61$		
	2 n = 4	
$M^2 - 6M - 9 = 0$ $M = 6^{\frac{1}{2}}$. 8 0	
n=-b+1/62-4ac	L-= en &	
20		
M=+6+136-4(1)(-4)		
2 N/12 C +12	-X	
	Co Ex	
Vistando: 7 C, ex-C, ex		
$\gamma''(x) = 49 C_{1}e^{3x} + C_{2}e^{x}$		
7 (81= 79 C, 8 + C3 6	Λ	
(40 C 12x) -6 (1 C 12x - x - x - x	+((,,e,*, (,e,x)) =	0
$\frac{y'' - 6y' - fy = 0}{(49 c_1 e^{4x} + c_2 e^{x}) - 6 (4c_1 e^{4x} - c_2 e^{x}) - 4(c_1 e^{4x} + c_2 e^{x}) = 0}$ $\frac{49 c_1 e^{4x} + c_2 e^{x} + c_2 e^{x} - 42c_1 e^{4x} + 6c_2 e^{x} - 4c_2 e^{4x} + 6c_2 e^{x} = 0}{49 c_1 e^{4x} - 49 c_1 e^{4x} + 4c_2 e^{x} - 4c_3 e^{x} = 0}$ $\frac{49 c_1 e^{4x} + c_2 e^{x} - 4c_2 e^{x} + 4c_2 e^{x} - 4c_3 e^{x}}{4c_2 e^{x} - 4c_3 e^{x}} = 0$ $\therefore y(x) = c_1 e^{4x} + c_2 e^{x} + c_3 e^{x} + c_4 e^{x}$		
$49C_{1}e^{3x} - 49C_{1}e^{3x} + 4C_{2}e^{-x} - 4C_{3}e^{x} = 0$		
∴ Y(x)=	C, e3x + C, ex i while	j
y"+4y'+4y=0 A M=	$= M_1 = -2$	
n=+4n+4=0		
	x)= C, e x Coxe	
2		
n=-4±10		
2		

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Y'' = 4 e ^{3x} (C,x - C, + C,)	
- 1/x1= e-9x (-2C,-2C,x+C2)	
Y"= 4 e3x (C,x - C, + C,)	
YII + 441	+4y=0
14 63x (Cox-Co+C)) + 4[6	50x (-26, -205x+C5) + 4[e (C/+ Cxx)
i de la companya del companya de la companya del companya de la co	+4y=0 -3x(-2C,-2C5x+C5)]+4[e ³ (C/+Cxx)
	0= 47-149-14
	64.h
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	and the second