Coulos Lielques Almeida Santes
20150465
Traballe 3 - CIV
$a)_{\alpha} = 5 + 3$
xy' + 2y lm(ay) = axy
xy' + 2y lm(6y) = 6xy
y + ay m(6y) - 0x
$y = g_{m}(c_{N})$
$\mathcal{U} = \operatorname{Im}(6\lambda)$ $\mathcal{G}_{\mathcal{A}} = \operatorname{im}(6\lambda)$
64 = e <sup>2</sup>
y = e <sup>u</sup> /6
du = d(m(6y)) = 1.6 dy
$d \times d \times d \times$
$\lambda' = \frac{\lambda}{1} \cdot \lambda'$
y' = u'y
Substituted no equação.
- Jun Wannes 1.2 Advers
x[u'y] + 2yu = 6xy
xu'+2u=6x+x
$\frac{1}{x} + 2x = 6 \Rightarrow EDO Limear$
$\overline{I(x)} = e^{\int \frac{2\pi}{x} dx} = \int e^{\int \frac{2\pi}{x} dx} = \int e^{\int \frac{2\pi}{x} dx} = \int \frac{2\pi}{x} e^{\int \frac{2\pi}{x} e^{\int \frac{2\pi}{x} dx} = \int \frac{2\pi}{x} e^{\int \frac$
FORON

$\frac{1}{1+\frac{3}{2}} \cos dx = 6x^3 = 2x^3 + C \cos \frac{3}{2} \cos 3$
3
$u(x) = \int \left( - \left( \int (x) \cdot B(x) dx + C \right) \right)$
I(x)
to the second se
11(x) == 11(112x3 +10)
$\times^2$
U(x) = 2x + C
X
u= bn(6y)
$\therefore lm(6y) = 2x + C$
Substitute of the XXX of X2
b)
Qm(6x) = 2x + C
$\times^2$
$2m(64) = 2 \times 4 \times 2$
$\frac{6}{4} = \frac{6}{3 \times 10^{1/2}}$ $\frac{6}{4} = \frac{6}{3 \times 10^{1/2}}$
2x+C/x 2
y = e 6
6
$y' = 1 \cdot e^{3x + 9x^2} (2 - 20) = e^{(2 - 20)}$
6 ×3 6
Iy' + 2y lin(6y) = 6xy; (=0
$\chi(e^{9x}(2)) + 2(e^{9x}) \Omega n(6y) = 6x(e^{9x}) + e^{7x}$ , (4)
(6) (6)
24+ 3/20(64) = (3x) = 1=1

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	and the second s
	Subject sile 1
	"XF = "Y - Y" = + "Y X
(2) (2)	
c) y(6)=	1
	In(6y) = 2x + C
	$\frac{1}{\sqrt{3}}$
	$\frac{C = lm(6y) - 2x}{y^2}$
	$C = \chi^{2} \left( \ln(6\gamma) - 2\chi \right)$
	$C = (6)^{2} \left( \ln(6(2)) - 2(6) \right)$
	( - (6) ( m(6(4)) - 2(6))
	C= 19,52
	494
	$(-1) = e^{3x} + \frac{39.52}{x^2}$
	6
<u>d)</u>	20 3 1 8 X - 1 3
<u>v</u> j	Y
	40
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	0
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