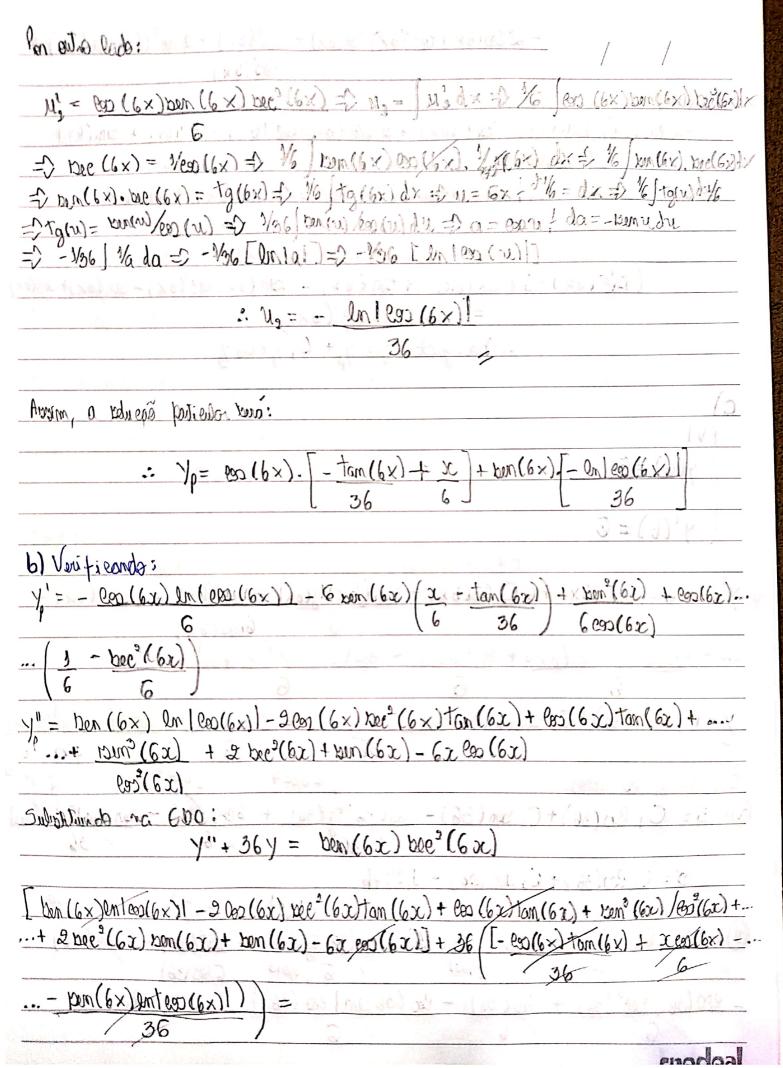
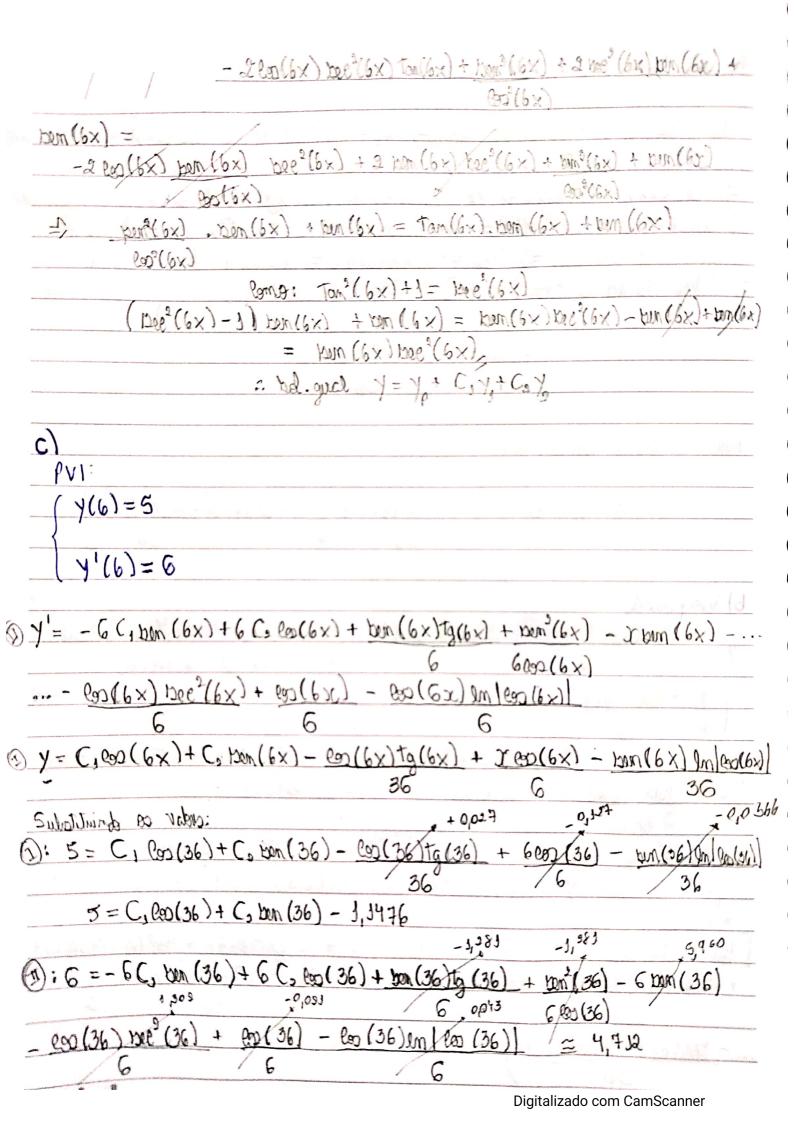
Coulos	Ludguer Movida Santos
20150	465
	Tradrolle 6 - C.IV
a)	$y'' + 36y = bom (6x) (bee (6x))^2$
Respect to the subsequently as a subsequent of the	1 So y = Louis (o so) (Loc (o lo))
Saució 1	hamaginea:
	y'' + 36y = 0
	$n^2 + 36 = 0$
	$n = \pm 6i$
7	$\frac{1}{1} = C_{1} e^{2} \cos(6x) + C_{2} e^{2} \cos(6x)$
	$\frac{1}{1} = \frac{C_1 \log (6x) + C_2 \log (6x)}{1}$
Abbim, ce	aleulando o Wnes Kuano:
	43-32 22 (X 6 x 24 x
W) ('	$(x, y_0) = y_0 $ $(x_0)(6x) - (x_0)(6x) - (-6x_0)(6x)$
	$\begin{vmatrix} y_1 & y_2 \\ -6 \cos(6x) & 6\cos(6x) \end{vmatrix} = 6 \neq 0$
Pho Von	réve de paromotres:
100	$P_0(x)y'' + P_1(x)y' + P_0(x)y = F(x)$
	18 2234 3 (20)
Profor:	
	/p= U/) + Ug/2
ada	/ eu + e/ eu + / / u= q/
Abbijm:	u, y, + u's y2 = 0 = D Supondo a progunda valação
	$y'_{p} = u_{1}y'_{1} + u_{2}y'_{2}$
	$y_{1}^{"} = y_{1}^{"} y_{1}^{"} + y_{2} y_{1}^{"} + y_{2}^{"} y_{2}^{+} + y_{2} y_{2}^{"}$
-	J

 $\int \frac{1}{y'' + 36y} = \lim_{x \to 0} (600)(\ln e(600))^{2} = 0$ $\int \frac{1}{y'' + 36y} = \lim_{x \to 0} (600)(\ln e(600))^{2} = 0$ $\int \frac{1}{y'' + 36y} + \frac{1}{y'' + 36y} + \frac{1}{y'' + 36y} = \lim_{x \to 0} (6x) \ln e^{2x} (6x)$ $\int \frac{1}{y'' + 6y} + \frac{1}{y'' + 6y} + \frac{1}{y'' + 6y} + \frac{1}{y'' + 1} + \frac{1}{y' + 1} + \frac$ Assim: (M') 1 + M' y') = lon(6x) to e= (6x) $\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} = \lim_{x \to \infty} (6x) \log^2(6x) \times (\frac{1}{2})$ M, y, + W, y, = 0 1, 1, 1 + 12, 1/2 7/2 = 0 u; y, 'y, + u'e y, ' y, = Y2 pen(6x) pec (6x) 1, (1, 1/2- 1, 1/2) = - 1/2 ten (6x) pee 2(6x) 1/1, -1/7 = M(1/1/2) = E : mucciA u' = - 1/2 ben (6x) nee2(6x): u' = 1/2 ben (6x) nee2(6x) Buno: $y_1 = \cos(6x)$; $y_2 = \tan(6x)$ comit $\mu_{3}' = -\frac{1}{2} \frac{1}{2} \frac{$ => 11 = -16 Den (6x) bec (6x) dx = 2 dull=dx = 2 - 36 / pani(u) - bec (u) du $\Rightarrow \frac{1}{100} = \frac{$: 4 = - Tam (6x) + X 36 eredeal

Digitalizado com CamScanner





Aoum:	/
B (5 = C, Rep (36) + C, Dam (36) - 3,3476	
@ (6=-6C, Dun (36) + 6 C, DD(36) + 4,712	
44	
(5 = -0,107 G1 - 0,991 C9 - 1,147 6 (6,1476 = C,0)24 - C20,	9912(-5,996)
[6 = 6 C, 0,991 + 6 C, 0,129 + 4,712] 1,288 = 5,946 C, -0,762	Co ~ (0,47
1 - 36, 553 = -0,755C3 + 5,892C2 1:0,363 = 0,755C3-0,00	76[-6,298]
C,=-0,4346,455	
Ø Q,363 = 0,755 C, -0,096 C2 + (C,≈-0,582)	
-36,39 = 5,796Cs	
C= -36189/5,796	
C = -36189/3,796 C = -6,278	
Løge:	
y = -0.582 ext(6x) - 6.248 tem(6x) - ext(6x) tem(6x) + x ext(6x) - tem(6x)	() Im (m/(sz)
y = -0,589 esc (6x) - 6,948 tem (6x) - 20 (6x) tem (6x) + x esc (6x) - 40m (6x)	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	_
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36
$y = -0,589 \cos(6x) - 6,948 \tan(6x) - 90(6x) \tan(6x) + x \cos(6x) - \tan(6x)$	36





+ Entrada...

