	A3 = Jim - 4
	$f_{\xi}, f_{\xi}, g_{\xi}, 0$ $(f_{\xi}, g_{\xi}, g_{\xi}, g_{\xi})$ $o \leftarrow a$
	~ 0,979
0	Logo, namos dese que :
	V
	$v_1 = \frac{v_1 + v_2}{v_1 + v_2} = \frac{v_1 + v_2}{v_2 + v_3} = \frac{v_1 + v_2}{v_1 + v_2} = \frac{v_1 + v_2}{v_2 + v_3} = \frac{v_1 + v_2}{v_2 + v_3} = \frac{v_1 + v_2}{v_1 + v_2} = \frac{v_1 + v_2}{v_2 + v_3} = \frac{v_1 + v_2}{v_1 + v_3} = \frac{v_1 + v_3}{v_1 + v_3} = v_1 + v_$
_	Para obtix a volução y(t) de eq. difusical (utilizando formulasio): \Rightarrow calculando a transformada de \neq \Rightarrow
	U(+) = 0 994 -0,23± -17,77±
	1111 (e +0,0128 y +0,479 w(t)
	EXERCÍCIO FORNECIDO PELO PROFESSOR
_(alcula a the contain
S	equinte:
	X(x) - 1
-	(v+4c)
Lyth	
	$(x+1)^3$ $(x+1)^3$ $(x+1)^3$
	(2011) (2011) (2011) 30
	calculando os malous de A1, A2, A3 e A4:
1	a A - 19im 1 - d1-1 [1 - 113 v.]
	$\frac{A = 1 \cdot 1 \cdot 1}{1 \cdot 1 \cdot 1 \cdot 1} = \frac{A \cdot (1 - 1)!}{1 \cdot 1 \cdot 1 \cdot 1} = \frac{A \cdot (1 - 1)!}{1 \cdot 1} = \frac$
	= lim (vo+1)3. 1 = lim
	5-1 5 5 5-1 5
	- Az = lim -1 d2-1 (ω+1)3 x (ω)] =
-	$3 \Rightarrow -1$ (2-1)! $2 \Rightarrow -1$
-	= lim d [(s+1)3: 1] =
+	control do L (stro)
+	- clim d 1 - clim (- 1) 1
+	3-1 do 3 3-1 (-1)
+	= - 1 = - 1
+	

. A.	$= \lim_{\Delta \to -1} \frac{1}{(3-1)!} \frac{\lambda^{3-1}}{d\lambda^{3-1}} \left[(\Delta + 1)^{3} \times (\Delta + 1)^{3} \times (\Delta + 1)^{3} \right] =$
-	$s \to -1$ (3-1)! ds^{3-1}
	- lim 1 d [(x+1)3,
	5 → -1 2! ds2 (+5+17) s
	lim 1 d2 1 = 1 lim 2 -
	15 -1 2 ds2 5 2 15 -1 153
	$\frac{1}{2} \frac{2}{(-1)^3} = \frac{1}{(-1)^3}$
	$2(-1)^3$ $(-1)^3$
	A - dim 1
	$\frac{1}{4} = \lim_{s \to 0} \frac{1}{(s+1)^3} = \frac{1}{(s+1)^3} = \frac{1}{13} = \frac{1}{1}$
ماموم	, vamos ter que:
	$(n+1)^{3} + \frac{-1}{(n+1)^{2}} + \frac{1}{(n+1)^{2}}$
	(n+1)3 (n+1)2 n+1 vs
Porte	ente, a sua teansformada de dapeace inversa é
xc	t) = = ±2 10 t - ± - ± + w(±)
	2
EXE	RCÍCIOS - SLIDE 58
Come	: laineufib agrace etninger a exubia
d	$2y(\pm)$ 4 dy(\pm) + 1y(\pm) = 8x(\pm) - 4
<u>d</u>	$\frac{2y(\pm)}{dt} + \frac{4 dy(\pm)}{dt} + \frac{1y(\pm)}{2} = 8x(\pm) - 4$
	dtr dt
	obtembra a versporta y (x) jara a versporta ao
حا مع	optembro o novlesta h (4) toro o nevlesto ao
حاسما	obtembra a versporta y (x) jara a versporta ao
مى مارىخىلە مارىخىلە	obtembra a versporta y (±) para a versporta ao 1. considere agoia a versporta para 1 verso.
as deguas de <u>Nota</u>	estembra a verjesta y (±) jara a verjesta as 1. considere agoia a verjesta jara 1 ve 2. 1. considere agoia a verjesta jara qua 1 ve 2. 1. considere agoia a verjesta jara ao condições
as deguas de <u>Nota</u>	estembra a verjesta y (+) jara a verjesta as : jara as 2 almeas considere que as condições iais são mulas.
as deguas de <u>Nota</u>	ettembra a verlesta d'(7) lora a revlesta as : lara as of allusas considere dre as courriès : via as of allusas considere dre as courriès : via as of allusas considere dre as courriès : via as of allusas considere dre as courriès : via as of allusas estat de
as deguas de deguas	estembra a verjesta y (+) jara a verjesta as : jara as 2 almeas considere que as condições iais são mulas.
as deguas de deguas	obtembra a verjesta y(t) jara a verjesta as considere agera a verjesta jara 1 23. jara as 2 almeas considere que as condições iais são mulas. de = 0.
AIQIA NOTA Linic	obtembra a veryesta y(t) yara a veryesta as 1. 1. considere agera a veryesta yara 1 23. 1. yara as 2 allmeas considere que as condições iais são mulas.
ATOLA Director	dt d
ATOLA Dimin Cal	obtembra a verjesta y (±) jara a verjesta as 1. considere agoia a verjesta jara 1 2 3. : jara as 2 almeas considere que as condições iais são mulas.
ATOLA Dimin Cal	obtembra a verjesta y(t) jara a verjesta as 1. 1. considere agoia a verjesta jara 1 23. 1. jara as 2 almeas considere que as condições 1. iais são mulas. 1. de j = 0.
ATOLA Dimin Cal	obtembra a verjesta y (±) jara a verjesta as 1. 1. considere agera a verjesta jara 1 23. 1. jara as 2 almeas considere que as condições iais são mulas. 1. jara as 2 almeas emoridere que as condições iais são mulas. 1. jara as 2 almeas emoridere que as condições iais são mulas. 1. jara as 2 almeas emoridere que y(0) = 0 .e 1. jara as a juntas que digre que y(0) = 0 .e 1. jara almea que anadas que de deplace: 1. jara almea as transformadas de deplace: 1. jara almea as transformadas de deplace: 1. jara a verjesta y (±) jara a verjesta de deplace: 1. jara as a verjesta y (±) jara a verjesta de deplace: 1. jara as a verjesta y (±) jara a verjesta de deplace: 1. jara as a verjesta y (±) jara a verjesta de deplace: 2. jara as a verjesta y (±) jara a verjesta de deplace: 3. jara as a verjesta y (±) jara a verjesta de deplace: 3. jara as a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 3. jara a verjesta y (±) jara a verjesta de deplace: 4. jara a verjesta de deplace de deplace: 4. jara a verjesta de deplace de deplace: 5. jara a verjesta de depla

· 2 [4(t)] = Y(D)	$ \frac{\partial}{\partial x} \left[x(t) \right] = \frac{\partial}{\partial x} \left[u(t) \right] = \frac{1}{2} $	+
[3-]		1
· Z[4] = Z[4m(+)] = 4	1
	comes epopoissemil at amuast	+
tel que:		4
(a) Y a P + (a) Y a	$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = \frac{\partial}{\partial x} + \frac{\partial}$	1
	•	
(1+ av+ 5a) (a) Y (=)	$= \frac{4}{5} = \frac{1}{5} = \frac{4}{5} = $	
	b 52+41+1 b	
(=) Y(D) = 4	. 1 (=)	1
1+24+30		+
cálculas auxiliates:	(a) Y (a) = (a) Y (b)	+
	(2) 1(2) = (2) (2+3,13) (2) (2)	+
32+400+1=0(=)		+
$\frac{(=) \cdot 90 = -4 \pm \sqrt{4^2 - 4 \times 4 \times 1}}{2 \times 4}$	(=) Y(D) = A1 + A2 + A3	1
exi	5+0,27 5+3,+3 5	
(=) w = -0,27 v .b = -3,73	9# 170 JP - 26 5 7 - 28	
201000	are the characteristics of the contraction of the	T
ca abmoluples	vatour de A1, A2 a A3:	+
. A aim - 4	1 - 4	+
100-1-0,27 UD+3,73	(-0,27+3,73) · (-0,27)	+
1	THE THE CONTRACT CONTRACT OF THE CONTRACT	+
≃ - 4,282	nated and a second	1
A = wim 4	4	
2 05-3,73 05+0,27	cb (-3,43+0,2+)·(-3,43)	
± 0,340	Chienos Colodo Fen ani Come	1
A = lim 4	= -4 = 3,972	1
+d)(F5,0+d) 0 ← cv €	373) 0,27.3,73	+
1		+
dago, vamas tu que:	0.210	+
Y (00) = -4,282	+ 0,310 + 3,972	+
ro + 0,27	ov 84,6+d	+
	que a mestanta y(t) voi voex:	1
Por ine, vamos du	-3,43 ±	1
Jol juse, varmes del.	+0,310 (e 3,45 x + 3,972 w (t)	
	+0,310 (0 3,43 ± + 3,972 w(±)	1
	+ 0,310 (e + 3,972 w(t)	+

	a sua transformada
	20 401000
vam	nos agora considerar a untrado do vistema a
Negmi	$mte: X(b) = \frac{1}{5} \sqrt{5}^{3}.$
مرمع	o, samo tu que:
- Lo	2 Y(x) + 4x Y(x) + 1 Y(x) = 8 a - 1/3 - 4 cs
(2)	1(x) (x) + 4x + 1) = 4 (4 in 1/3 - 1) (=)
Co Y	$(10) = 4$ $(40^{-3/3} - 1)$
	(32+40)-6
	vamos considuas
	riate = a Y1(x)
	Qui inio martir la VIII de la
	ou vija, samos iter: 4 (s) = 4 (s2+45+1).5
	: comelar, seietana amila ab
	y (+) = -4,282 10 -0,27± + 0,310 10 + 3,972 11(
-	
Har	o, Dasicamente:
Y	$(35) = Y_1(35) (4 e^{-3/3} - 1) = Y(35) = 4Y_1(35) e^{-3/3} - Y_1(35)$
Bort	ante, apricamb o deserva da translação vego e
o ten	rema da Imeoxidade; vamos tex que a teamsforma
de do	place imisusa is:
y (t)) = 4 y (±+ 1/3) - y (±) (=)
cay (xt	1 = -17,128 = -0,27(k+1/3) -3,73(k+1/3) + 15,888 = (4) + 4,282 = -0,27 $-0,310 = -3,73 = -3,972 = (4) = -0$
	- 0, 310 c - 3, 972 cm (±) (=)
-	0.13.4
co y (t	() = - 19, 622 (e + 1, 421 (e + 11, 916 m(x)
1	