	No. :
	Date:
Homa: Prama Rey Lopson	
NPM: 190810210087-A	
Slide: ab	
a y"-3y +2y = cosx	
· PK: 72-372 + 20 50	olsi homo
(2-2)(2-1)	olusi homoogen: Yh= (1 er thet
2,=2, 72=1	Tibs
yp = A-cos x +BGinx	
yp'=-Asinx + Bcosx	N. Control of the Con
() (9)	No View of the Control of the Contro
$1 - 4 \times 4 - 7 \times 2 \times 3 \times 3$	
-A Cos x + B Sin x + 3 A Sin x - 3 B E &	15(05 x) 1 5 (A(OS x + B Sin x) = Cor
A Cos x + R Sinx + 3A Sin x -	STRONG X +1BSigz=Colx
(A-30) (osx + (3A+B) sinx =	Cour
1 (2) 1 (2) may 1 (2) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1	and of a second
3A+13=0 => 3A+13=0	2A = 3/10 >2
14-3B=3 34-9B=3 -	34 - 3/10
log = -3	A = 1/10
B=-3/10	710
50 : y = y + yp	2000
= (c, e 2x + (2ex) + 1/0	(0) de - 3/10 co
	λη_ε
b. y"-99 = x+2	
PK: 72-9:0 . Solos	si homogen: Th= cle 3n + cze-se
(K+3)(/C-3)	
R1=3, R2=-3	
">p = A1x + A2	The second secon
9p'= Ay	
yo" = 0	

a him was a second		
		No. :
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-	0-9 (4x+Az) = 1c+2	25 See 20 - 145 - 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	-9Az+9Az= >64	30 A - 5 6 2 3 . 19
-5		Part Mark
5	-9 A1 X= X -9 A1 = 2	1.00,000
0	A=-1/9 (Az=-2)	9) = 90
	·50: 7= 7h +7p	As: '90
5	= C1 e 3n + C2 e -3n	- 2/g - 2/g
5		NO AS WALL SOLL MAIN.
	y"-3y"-4y=3xe2+2	in the second second
	·PK: 22-372-420	· Solvi homogan: Th= (1e are + (2e-x
	(R-4)(R+1)	A. 1. (1)
		18-19- "9,0) = " 9,0) = 18.
	yp=Azx2 + Az +Az	
	yp': 2Azx+A.	1 ANS 4 14 1
	7P"= 2A	· Pk: Kin w
		10
	-2A2-3(2A22+A1)-4(A	~2 LA ~LA \ - 3 x2 1 1
	2th - 6th x - 30, - atx	
		2AL-4A0-3A= 312+2
	-4 Ax x2 = 312 -3	
		-9A0=2+3/2+27/8
	m to a real way to the second	= 16 H2+27 = -56
	(-6Az-4Az) x=6	NARS 1 11 192 192 4 By 142 32
	18 - 4A, 20	
	4	SU: y= C1e4x + (2e4 - 322 + 9x - 55
	-4A1 = -12 NOVE	90. The second of the second o
	A	
	A(= 18 = 2	
	16 8	

The second secon			No. :	
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Cd	y'-34'-44= C24	21-1	JACHAMAN	
	.pk: 12-372-420	·Solusi	homogen: 9k=0	
	(R-a) (R+1)		J. 783(iear the
	R1 = 9, 722-1	A 12	St 2 Y . A A	
	yp= (e2"	4,6	01 = A	
	yp'= 2 (c 2)c		41 1 HE 2 F 2 1 1	
	yp" = q (em		3 12 -	
	acen - 6cen - ace = e zu			
	(41-61-41) er = er	.0-4	5 = 11 108 Pm	
	(-6°) e2x = e2x	No. 1	- 578- 19 - WO.	
	c = -1/6	17.	(10-11)	
	·50: CIEAX + (2ex - exx/6	7 8 65	A = . S	110
			5 A 5 X 3-2	
<u></u>	J FUJ F CAN K		AG LAS SE	
	·Pk: 12+4 20	· Solusi	homogen: C, (oszx	L . es
	12 -4		,	- CZSIY
	R12= = = = = = = = = = = = = = = = = = =	4- 14	John - War Co	
	19 = 21 (1/2 = -21	60	5- + 11 - As	
	16-14-182 W + 12814 X	144 -	all in 1 Sv Ma-	
	It = Trynk + Blogx		" Ne = "Nach A-	11
	TP = -A LOS X - BSINX		A. J Tria	
	-Acos x - 134in x + 4 Acos x +	- AB Sin	W=255018	
	34 = 250 >tnu = 25n)C		LAM MADE	3
	3B 51/2 - 251	nk	- U A D - 8 de	
	A=0 B=2/2		1	
	.50: y = (1 Coszu + (2 Sin2x +	2/3 540	x v = = MS	
			A	
To the second se		18	- H - 1	
- Commission	The state of the s	13	B. A.	1,000

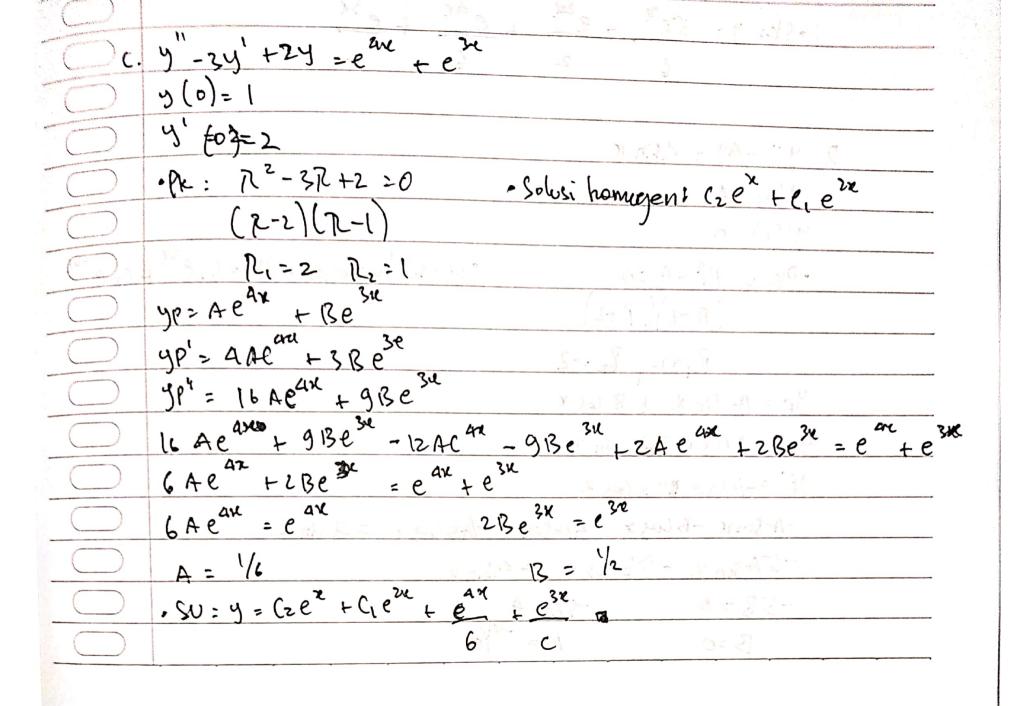
		No. :
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F	y" + ay = 2 cos. 21c	HOLD TO THE PART OF THE
	· PK: 12+4=0	· Soluci homæjen ; c, cos 2x + C2517:
	722-4	CHAIR TO GARAGE
	R12= + 2/	
	R1 = 2i (12 = -2i	Maria Cara Cara Cara Cara Cara Cara Cara
	yp; Accos 210 + Bresin 10	Part Sand Ja
	yp'= (Acos 2re - 2 Are sinzre) + (1	3 Sin 2rc + 2 Bx (052x)
(D)	yp": (-ZASin ZK -ZASinzx - AAX	Cos 221) + (2 RCUS 2x + 2BCOS 2x - 4Bx
	-21+sinzx -24 sinzx - AAX cos	211+2B cos22 +2B cos2x -4B25in
	4 AKLOSZK FABRSMIK =2	
	-4 Asin 2k + 4B Cos2k = 2 Gos	22 3 28 AC
	-AA:0 98:2	The gold of
	A20 B=1/2	00/ 2
	· 50: 4= c, cos (2x) + (25m)	200) + x yn (2x)
	the state of the state of	
C ca	y"+y' = 316272	
	·PK: 12+27=0	Soluci homogen: C1 + C2 e-2x
	7(R+2) 20	10 pg 1 1 2 - 1 5 : 49 m
	2,20, 72=-2	(4-11)(5-11)
	yp-Ax3 + Bx2 +xx	S = 5,14
	401 = 3AX2 LZBX+1	"" 1 " K) = 10"
	4P" = CA + 2B	24 24 20 00) 1 = 140
	6AR +2B +2 (3Ax2 +2Bx+e):	2x12+2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	GAR + 2B + 6Ax2 + ABx +2C =	3u2+2
	6 An2+ (6A+AB) 2+2B+2C=	342+2
	6Ax2=3x2 3+9B20 A=1/2 13=-3/9	-3/2+21=2
	A=1/2 13=-3/9	2C= 2 =P C= 4
	+50 : (1+(2+ + x3/2 - 3x	2/a + 7x/a

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Data	
narr.	

H. y = pay = 9 (0 S)	
- PK: 72+92+9:0 . So	the houngen: CIC-2X + (2XE-1X
(2+L)(2+L)	1 to feet
74.12 = -2	
yp= Asmz +B(us x	
yr' - Acos x - BSin x	
yp = - Asinx - BEOSX	100
-Asm 2 - Glesn + AA Cosx.	- ABSinx + AASinx +ABcese = grax
3451x +38cosu + AA COSX	
(3A-AB) Sinx + (3B+44) Co	
3p+ 16/3	8) Cosre = 9 coore
A > 4x B	290 B = 9
= 108/15	B = 27/25
= 36(25	- 13 (2)
· 50: 40 x + 62 x + 36 8in	x 25 + 27 COSX 25
	47 28 - 17 - 3 - 17
I. y" - Zw + Ay = e24	de te de la live de la live
· PK: 12-47+q 20 · Solo	si homogen: 9e 2x + (2 Xe 3x
(7-2)(7-2)	2-2-1 20-2
Q 74,2= 2	XX - O FXAND
9P=(x2e2x	MARIE AND THE
9p'= ((2xe2x +e2x 2x2)	652-80=12
yp1 = c (4e2x x2 + 8e2x +2e	
41e2x x2 + 81e2x + 2 ce2x - 8	Penezx -8 ce x +4 coce 2 2 ex
$2ce^{2x} = e^{2x}$	BLAD BARAGE CARD
C=1/2	2,245 305 3143 3143
· SU; Gent + (2xent + ernx2	e N'SA
O ANT A A SE 2	18

No. ; Date: 1 4"+34'-44 2342+2 · Solosi homogen : Th= Cietx + Ceex · PK : 12 + 37 - 4 20 (R+a) (R-1) P12-4, P2=1 9p=A-x2+BK+C JP' = 2Ax +B yp" = 2A 2A+6AK+3B-AAR2-ABR-AC-342+2 -AAX2 + (6A-4B)x + 2A+3B-4C=342+2 -4Ax 23x2 -6/4-48=0 -6/4-6/4-6/16=ac=2 B = -18/6 -29-59 + 46=2 A = -3/a -50: y= (1 e-4x + 12ex - 3x2/4 - 10x/16-54/6a ac= 72+73 16 -c = -55/64 2. A y"-y'-2y=3c2h y(0)= 0 y'(0) = -2 · PK: 22-7-2=0 · Solvei homogen: Th = (1 ex + (2ex ~(7-2)(pt1) 7== 2, R==-1 yp= cxean yp'= 2(xc2x+(e2x yp" = 4(20 e 24 + 41e200 41x em +4ce24 -20xe2 - ce2x -20xe2 = 3e2x 36em = 3e2k Ce = e 24 C=1 · SU: y2 (2 e2 + Ge2 + e2x x y = 262 ex - (1 c x + 2 x ex + exc

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0=(1+(2(1) -2=2(2-(1+1	
7 =- (2 7 + 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
262 +62=-3	
(2 = -1	1 20
C1 2 4	VA VA
y=-e2x+e-x+e2x	2 4 4 5 4
	91
 y"-ay'+3y=10 e-2x	See A N. S. Company
7(0) = -3= 3= 3= 10 00 = 10 00 = 10 00 00 00 00 00 00 00 00 00 00 00 00	.9
· PK: 12 - 47 +3 20 · Solosi homoger	3x
(n-2)(n-1)	t-Cz E
D,=1 P2-3	
yp= (e=x	
9p = -2(e-2k	
yp" - 4 ce - 2 k	
4ce + 8ce x + 3ce 2x = 10 e - 2x	1202 Parp 1 3 3
15ce = 10e-2x	(1) (1) (1) (1) (1) (1) (1)
1 - De Alexandra Col: 2/3 000	- T
· SU: y: Gex + (2 e 3 + 2/3 e - 2 k	1/25)
y'= (1ex + 3(2e3e - 9/2 e-2)e	
1 = C1 + C2 + 2/3 -3 = C1 + 3 C2	
1/32 C1+(2 (1) -5/3= C1+3(2	(2) (1+3(22-9/3
· SK: -ex + 4ex/3 + 2e-xx/8	-2(z > 2
76. 76 + 46 /3 + 20 /g	26 C22-1
2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	C1 = 9/2
W.F 38-	Va"
345 3 M 3 M 3 T 3 M 3 M 3 M 3 M 3 M 3 M 3 M	73) (f. 34)
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	y'= Czex + 24e2x = zeax +	7e 3e	
	3	2	
	Sk: C1 + C2 + 1/6 + 1/2 = 1		
	C1 + C2+ 1+3 =1		
	6	· · · · · · · · · · · · · · · · · · ·	
	G+2C1+2/3+3/2=2	72° - 4 00 DI	9
	Cz+Ci+ 4+9 = 2		
	6, 25, 4,	r letter a Miles	
	C2+2C1 = 2-13/6 =>	(2+2C1=-1/6	
		(2+C1=2/6 -	
		C1 = -3/6	
	13	=- 1/2	
	1 7 3	cz = 5/6	
	·sk: y: sex - e24 + ear	+ e >x	
	6 2 6	Z ((S) () . ()	
		1 - (3) e	
	y" - 49 = 4 sin x		
	y(0) = 4) 1,000,000	31 2-93+17 A	1
	y'(v)= 0	(3-3) 3-5	
	·P/c: R2-4:0 ·Solu	si homogen: Th= Cie2x	+ (2 e - rt
	(n-2)(n+2)		1-02-
	R1=2 R==-2	Me at the Marian	
	Yp = 1 Sin x + B 60 x	The state of the s	-
	Yp'= Acos & Tob Sin K	51 - H - H P - 320 31	
	9P =- Asinx 1-B Cos e	1 = 18 13 1 1 1 1 4 3	-1 1
	-Asine-Bloge -4Asine-ABC	ot v = 4 Cin Y	
	-549nx - 5B(0)x = 45inx	NI NII -	
	-58=0 -5A=9	4 3 124 TOWN - 1 - 112.	
	B=0 A= -45		

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Su: 4 = cle2	$\frac{1}{1}$ + (2 e $\frac{-2x}{-4}$) = $\frac{-2x}{-4}$ = \frac
y'= 2Cie	2K -2(2 e -4/5 (01)C
C1+(224(1)	201-2(2=4/5=0
	20,-202 = 4/5
	C, - Cz= 4(10 .~(e)
(1+(2:4	
(1-(2= 4/10.	
2(2= 36/10	
Cz= 36/20	
Cy = 56/20	
	2x + 36 e-2x - a cin x
24	0 20 5
- 11 e	2k + 9 e-2x -4 Sinx
20	5 5