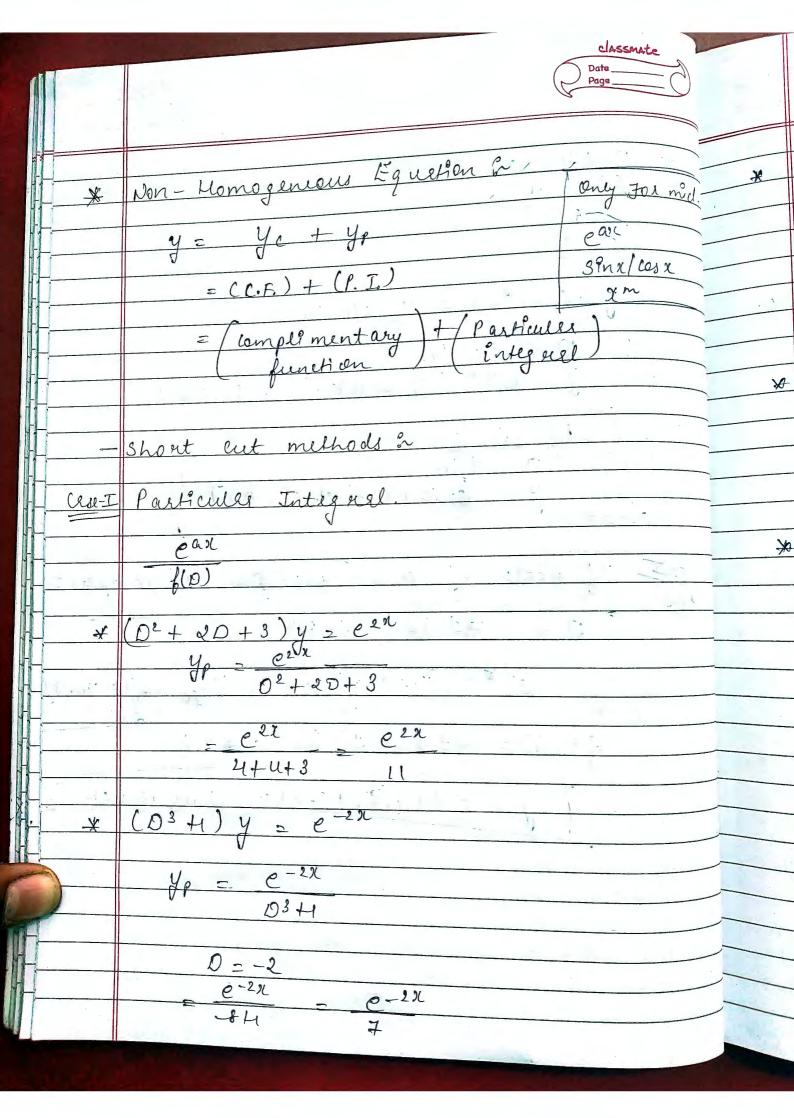
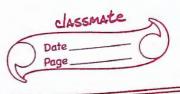


C, cos BX + Cosin BX y = (c, cosbx + cesin Bx) If nosts of A. E. are pair of complex: X+ 9B, X+iB (C1+C2 X) COSB + (C368+C40) X SINBX) +(3X2 +(5X2 Egg D=-2+1, -2+1, -2=+1. 4 = e-27 ((e, + Cox) cox + (eg fcy) 59nx 1+: 3

... 5

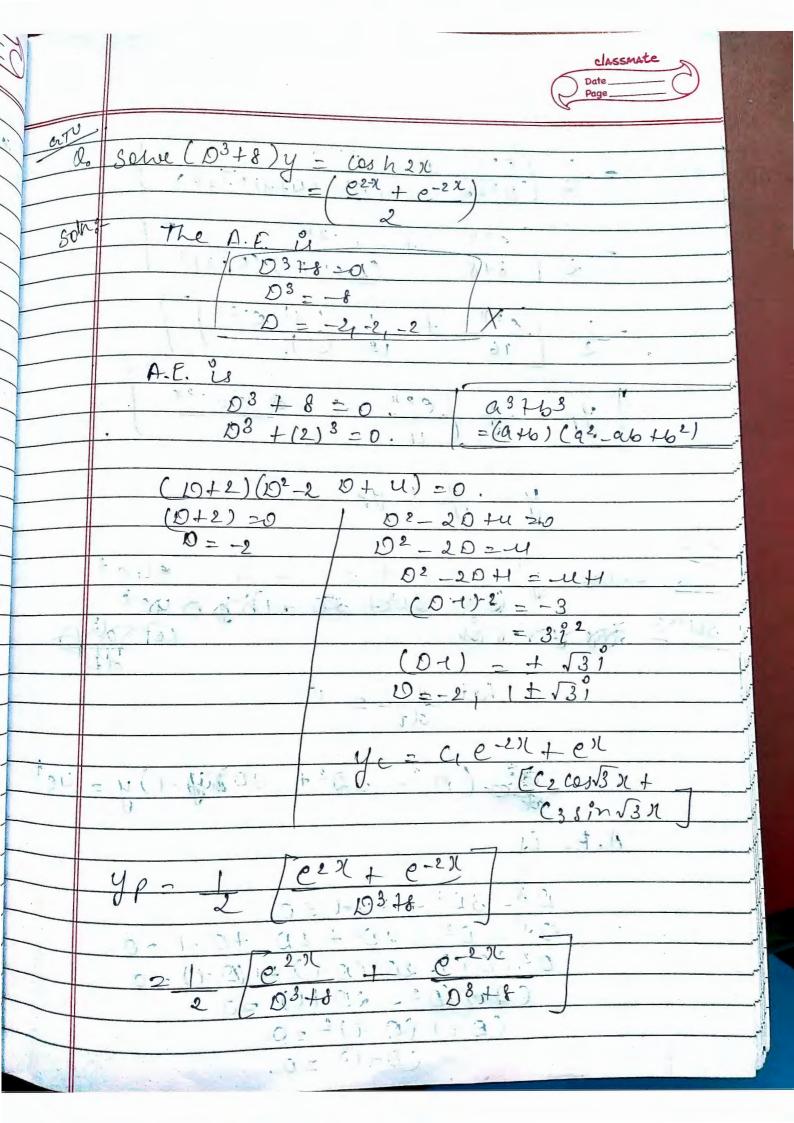
113.

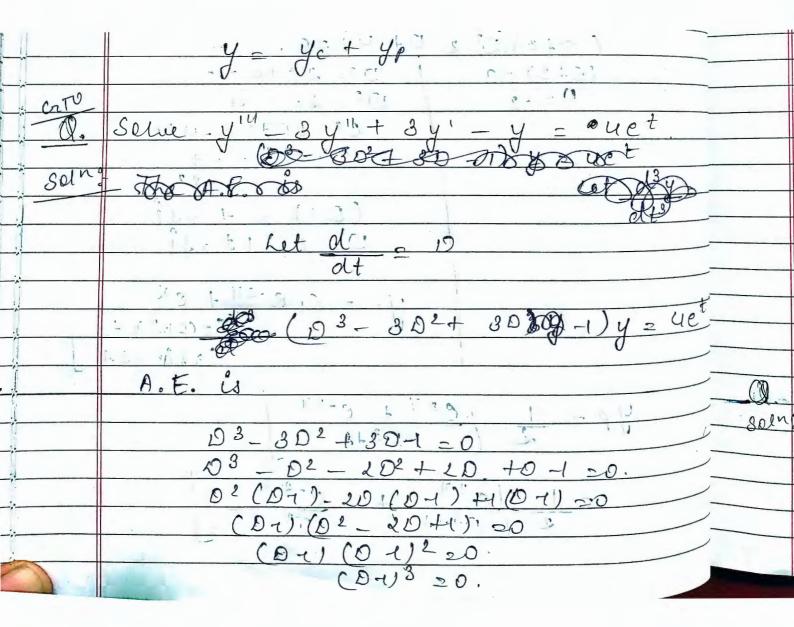


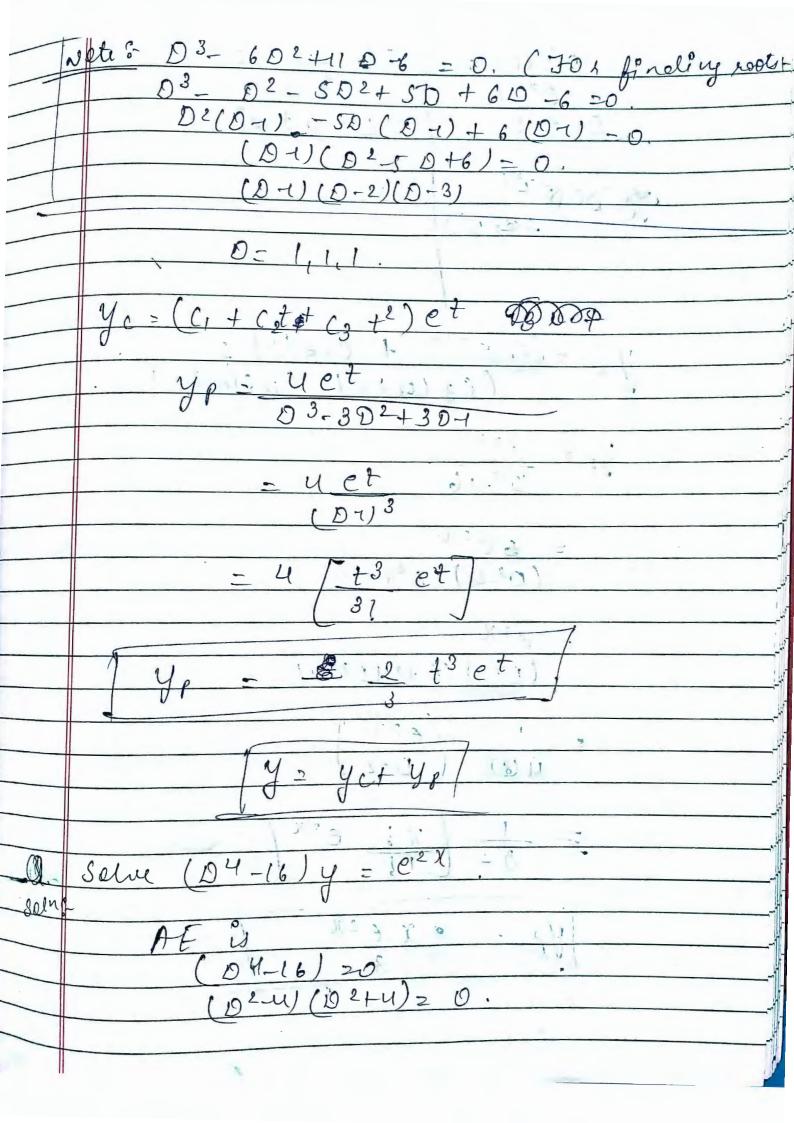


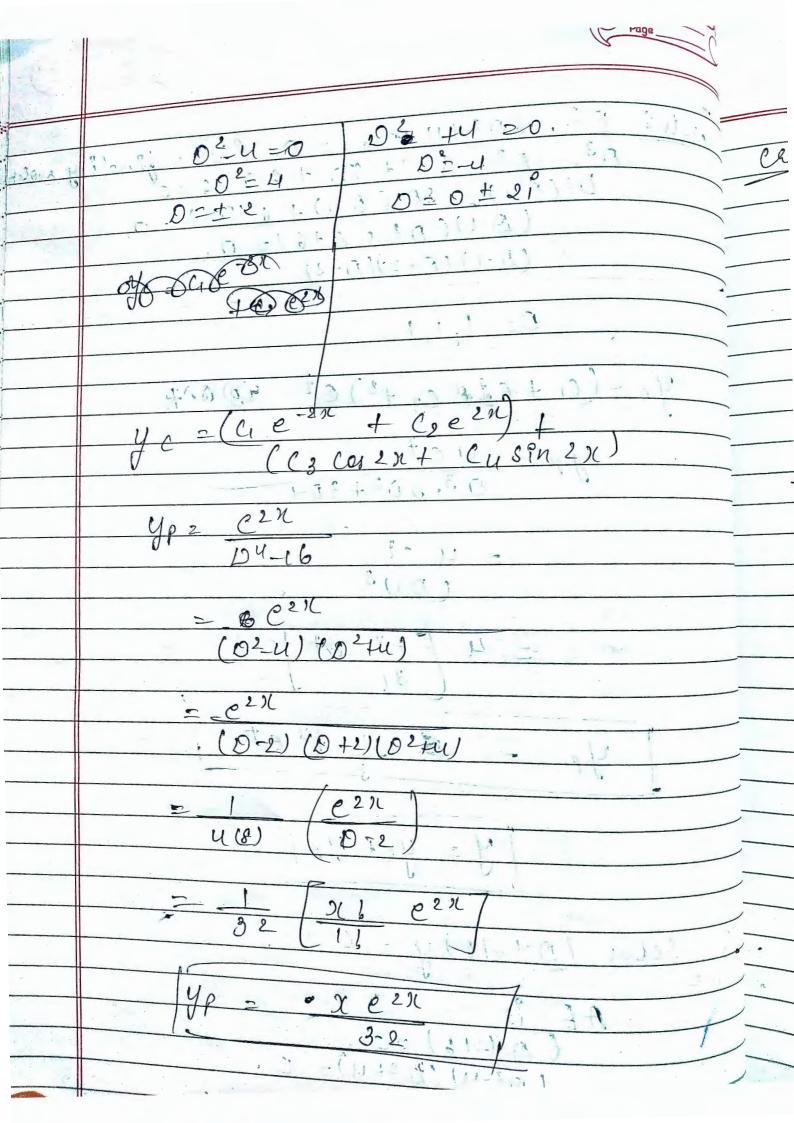
	(0-2)3y = e2x Note:- Case failure
*	
	19 y = e2x , eax x4 eax (D-a) n 91
	$(D-2)^3$ $(D-a)^n$ 91
	$= \chi_3$ ern
	31 0 1 1 1 1 1 1
*	$(D+3)^2y = e^{-3x}$
	$\frac{y_{\rho}=e^{-3\chi}}{\sqrt{2}}=\frac{2}{2}e^{-3\chi}$
	$(0+3)^2$ $2!$
*	(0°-50+6) y = e2x
	y = e 2x
	D-J D+6 :
	\ ' i G \ =
	== 029((11)
	(D-3)(D-2)
	- [x' e2x]
	= -xe2x.
	(i) resistant of
	5 y

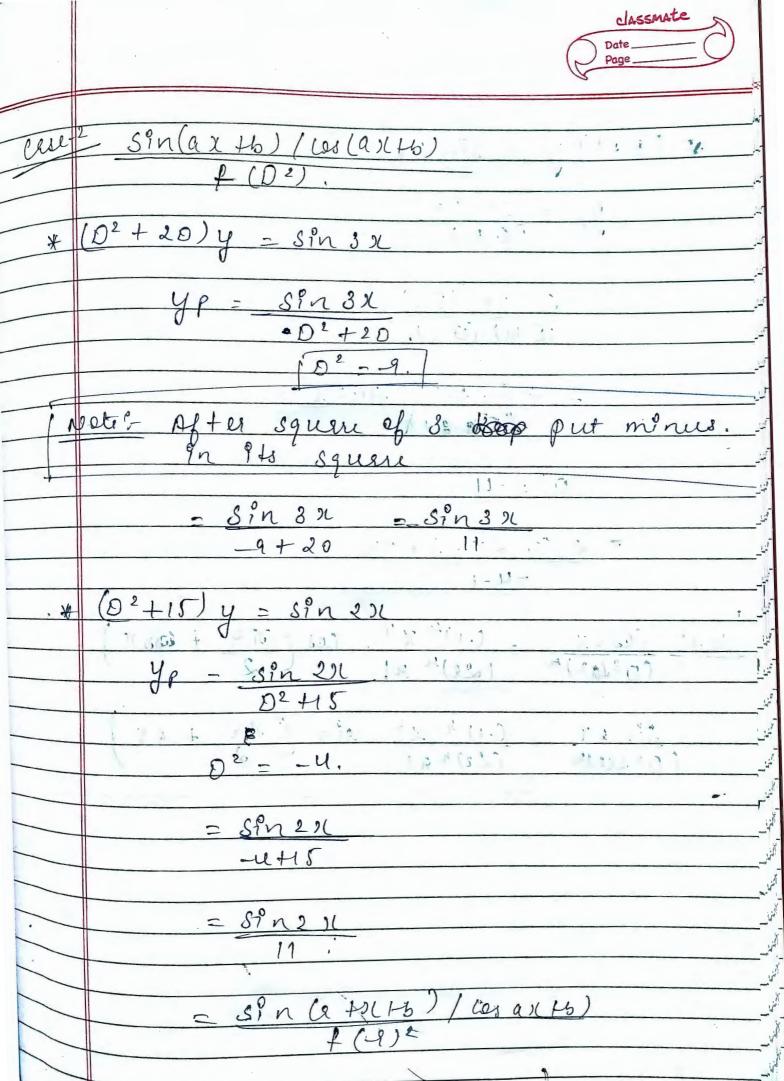
a supplement	Date Page	
are and	Solar y" = 3y' + 2y = ex.	crity
- Vo	Vacas	- 1
	$(D^2 - 3D + 2)y = e^{\chi}$	
	A.E. U	50
	0=-3042 -0,	-
	(D-1)(D-2) = 0 $D = 1, 2$	
	3 3 = N = 1 : Lai 1	
44	1 ye = c,ex + c, ex	
	15. "(2.3)	
	yp = e'l	
<i>j.</i>	D2-3D+2	
2.	= 60%	
	(D-2)(D-1)	
	F) F	











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(D+1) y = sin 2x

yp = 59n2x (DH)

=8in 2 x (0-1)

= 2 LOS 2 X - SÎN 2 X

02=-4

0. Solve y" - 8 y 1" + 9 y = 40 sen 5 x. $(D^2 - 80 + 2)y = 40 \sin 5x$ The A.E. is (D2-80 +9) =0. 02-80 H6 = -9+16. (D-u) = 7 D-u=± \ 77 D= U± V7 0= 4-V7, U+ V7. 40000 C, e(4-V7) ? +' C, e(4+V7) x yp = 40 sin 5x. (D2-8D+9) 102 - - 25 40 sin 501 = 40 stron -16-8D 2 40 Sing IL

-8 (D+2)

