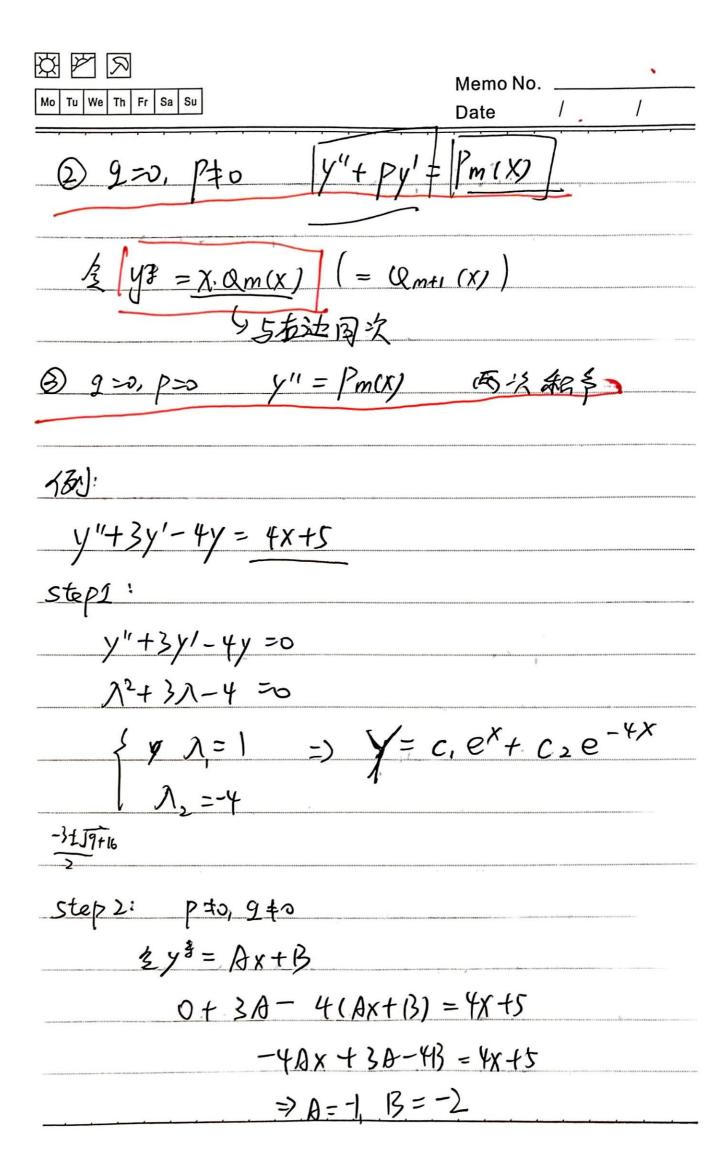
<u>K</u>	Tu Wo Th Fr Ba Su	(1图度"	Memo No/	/
	0 二片幕教物	次月经		
	$\leftarrow y'' + py' + 2y =$	o_ = f	第五支文文 yeneous	
-	北谷文: y"+Py"+9		ge nesus	
	多项灯、正东的处	,		/
_	OZfix) RESIES	f(x) = Pm)(x)	
			公理 便成高	投资
4	ig 60 (£ata:		*****	
·*	它对在的有次外	"+ Py"+ 2 y	<i>=0</i>	
	$Y = Gy, + Gy_2$			
	り道	解		
拨三	持報 y ³			
\\ \)	非各及海解: Y=	: Y+ y*	3号表 讨论	
FOKO.	考打以是始项或,大约	$x_1 = P_{m}(x)$,多项北藏高兴	(表为m
W.K.	[10]当 里和 ,至y*	=Qm(x)=	= a. +a. x +a. x2	+ · + amx"
	735年数法 71	11 / y"+ ky	1+2/=[1x/ stia.	a, az. am



\text{\text{\$\}\$}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	×	5	R			
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$$y = c_1 e^{x} + c_2 e^{-4x} + (-x^{-2})$$

$$= q e^{x} + c_2 e^{-4x} - (x+2)$$

倒为

=)9 =0

$$\lambda^2 + \lambda = 0 = \lambda \lambda_1 = 0, \lambda_2 = -1$$

特解;

$$B=-2$$
, $C=4$

$$y = C_1 + c_1 e^{-x} + x^3 - 2x^2 + 4x$$

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Case

(ase
(b) f(x) = Pm (x) cosbx

(b) 大文是 持 征 根

(case
(b) f(x) = Pm (x) cosbx

(case
(

13/

$$f(x) = y'' - 3y' = ((8x - 12) \cos 3x)$$
=> (1) $(1 - 3y') = 0$

② 沒 y³ = (Ax+B) 08 (AX + CCX+D) Sín3X

 $(y^*)' = A(ss3x + (-3Ax sm3x) + f(3sm3x)$ + csin3x + cxas3x + 3D cs3x $(y^*)'' = -3Asm3x + A(-3sm3x) + (Ax+B) (-7cs3x)$ $+ ccs3x + c\cdot 3cs3x + (cx+D)(-9s/n3x)$

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=) $y''-3y' = + E-(9A-9c) \times + (-9B+6c-90-3A)$] $C > 3 \times + E-(9c+9A) \times + (-9D-6A+9B-3c) S = S > S = (18 \times -12) c = S \times S$

1302 x'' + 6y' = -6cM3xx'' + 7x + 7x + 7x + 7x = 0, -9

y''+9y = -6sm3x $\Lambda^{2}+9 \Rightarrow 0, \quad \Lambda = \pm 3i, \quad \Delta \Rightarrow 0, \beta = 3$

 $\begin{cases} \chi = C, \cos 3x + \cos 3x \end{cases}$

> y = x (A cos 3 x + 13 sm3x) =) A(A -) y = x sm3x

sy= a cus 3x + c2 sin 3x + x cus 3x

	_
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(9) 二特革新教 结	
78	m(x)
y"+py1+9y=	MCX) D X) CUSLX (PMCX) SMCXI) E
Proces	VI - 1 V (P-1/2) Charles
- mu	MUXUS C (MUX) SMICKI)
	^
(3) U" + PV + 4 4 -	erx. fix) # fix)
Step1: 19 64	\bowtie
	x 7 /
	一 14'八
(y) = = +(x) ex	$x + n \neq cx e^{rx}$
(y) = e rx [2"(x	
=) erx[2"+ 1(2r+P) 2"	+ (r2+12+2) +] = erx,fi
	- T(x)
二路幕系	是那个次母地
	// Y
181: y"-5y'+6y=	$(1)X-1)e^{4n}$
$0 \lambda^2 - 5\lambda + 6 = 0$	
$\lambda = 2, \lambda =$	- 5
5 Y= C1. 82x+ C	263X

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$$3A + 2Ax + 2B = 2x - 1, \quad A = 1, \quad B = -2$$

$$2^{\frac{3}{2}} = x - 2 \quad 2^{\frac{4}{3}} = cx - 2 e^{4x}$$

$$2^{\frac{3}{2}} = x - 2 \quad 2^{\frac{3}{4}} = cx - 2 e^{4x}$$

$$2^{\frac{3}{2}} = x - 2 \quad 2^{\frac{3}{4}} = cx - 2 e^{4x}$$

(4)
$$y'+ py'+ gy = f_1(x) + f_2(x) + \dots + f_K(x)$$

$$= 3 \# -7 - 7 = 6$$

$$= y \# - y'' + py' + gy = f_{K}(x) = 1 + y \# + y \# + y \# + \dots + y \#$$

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图: y"->y'+y=50Sm2X

Sin2x = 1-6052X

y"-2444=25-25 aszx

() f(x) = 25 (2) f2(x) = -25 652 X

Q y"-29'+y=25

y, \$ = 0 => A=25

 $\lambda^{-1} \times 2\lambda + 1 = 0$ $\lambda_1 = \lambda_2 = 1$

, T= aex+cxex

(E) 42 = A cos 2x + B s/n 2x

~ => A=3, B=4

423 = 3 COSZX+45in2X

1 Y = Gex + C1 Xex + 25+ 3 Gos >X+45m2x

y = Qm(x)

XQM(X) \$120) (2rtpl (cr2+ pr+2) [amix). cos bx + Rm(x). Smbx]