1	Date: P. No:
	Tutagial-1
	Deccond corder PDF:
	1(xy) Uzz + B(x,y) Uzy + C(x,y) Uyy = \$(x,y, u, ux, ya)
	Top E = E1291 and W = W(2.87)
	n(24) = m (2(24) b(24)
	$a \omega_{\xi\xi} + b\omega_{\xi\eta} + c \omega_{\eta\eta} = \phi(\xi, \eta, \omega, \omega_{\xi}, \omega_{\eta})$
	C=A & 2 + B & & & + C & 2 & b: 2A & x nx + B (& x my + & y mx) + 2 C & y ny C= A x nx + B nx ny + C ny2
	$\beta^{2} - 400 = J^{2} \left[\beta^{2} - 4AC \right]$ $\beta^{2} - 400 = J^{2} \left[\beta^{2} - 4AC \right]$
(i)	b=0 and (a=0 on c=0)
	Take 0=0; A & 2 + B & & 4 C & 2 = 0 divide by & 2 -> A & 2 + B & 2 + B & 2 + C & 2 = 0 Ey + C & 2 + B & 2 + B & 2 & 4 C = 0 - 3
	Along the considinate line, if = const, the total degricoble
	d & = 0
-	dx = - Gex - B
¥	dx 84

_

This is characteristic polynomial. (B2-4AC=0)

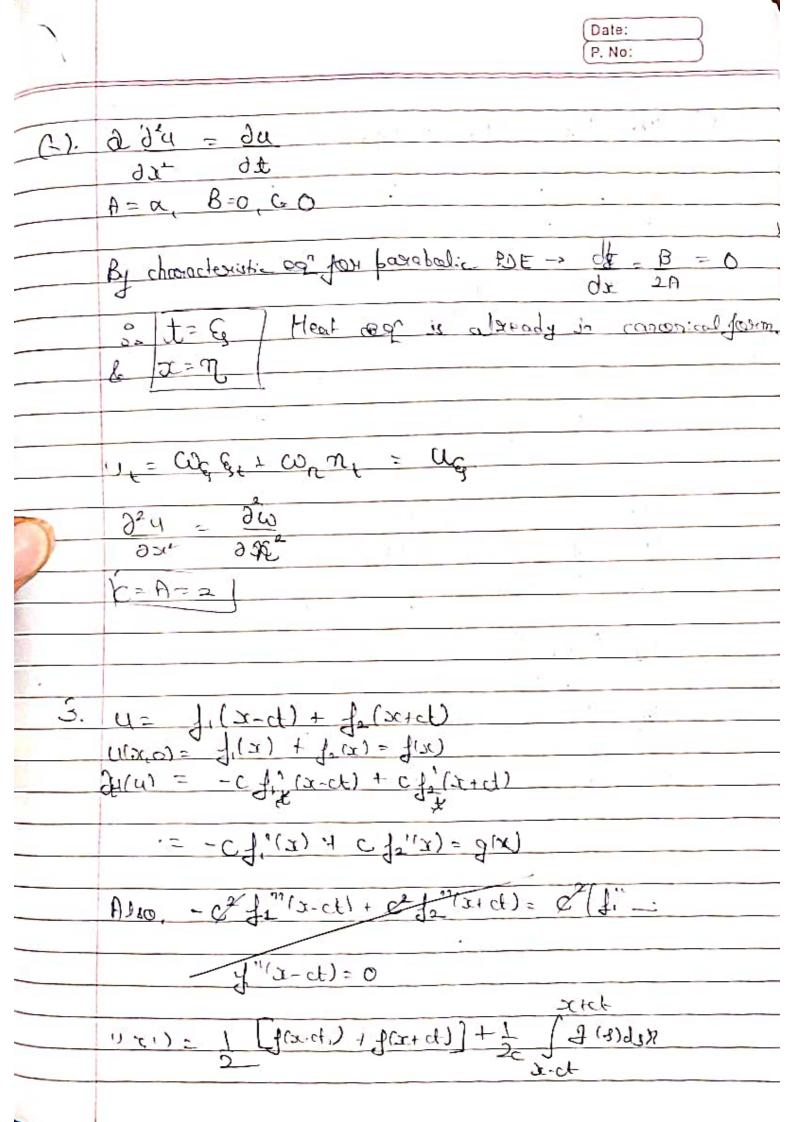
. There is only one real characteristic curve.

Now, b=0 -> cagny + B(Gxny + Gnx) + 20 Cg ny=0

Divide by Est thoroughaut

to be aubitorony.

from A.B.C -> crosslant.



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(4)	Uxx + Ugy = Ux1x1 + Uy1y1 = 0
	[A,] [-evor corn [A] onle of Hapan [x,] [cora 8ind [x] of 7,8
	[A,] [-Eyer con [] audie al Haparyan
	2': 0284(26) 6 61C)
	2' = COSd(20) + Sina(y) -0
	y'= - sina (20 + cosa (y) -0
	Ja Ja
	$\Pi^{x} = \frac{9^{x}}{9^{\alpha}} \frac{9^{x}}{5^{\alpha}} + \frac{9^{A}}{9^{\alpha}} \frac{9^{A}}{9^{A}}$
	Use = dix cosa - Lly sina
9	Ura = Uzi Cola + Ana Uzi chyi
	Ma = 20/24, 94 + 30/94. 98/94
	= (12, 8in x + nhi caix
	Uyy = Uxix' 812 x + Uyy cox'd
	agg - sta sin
	U-7+Uyy= Uxx+ Uyy