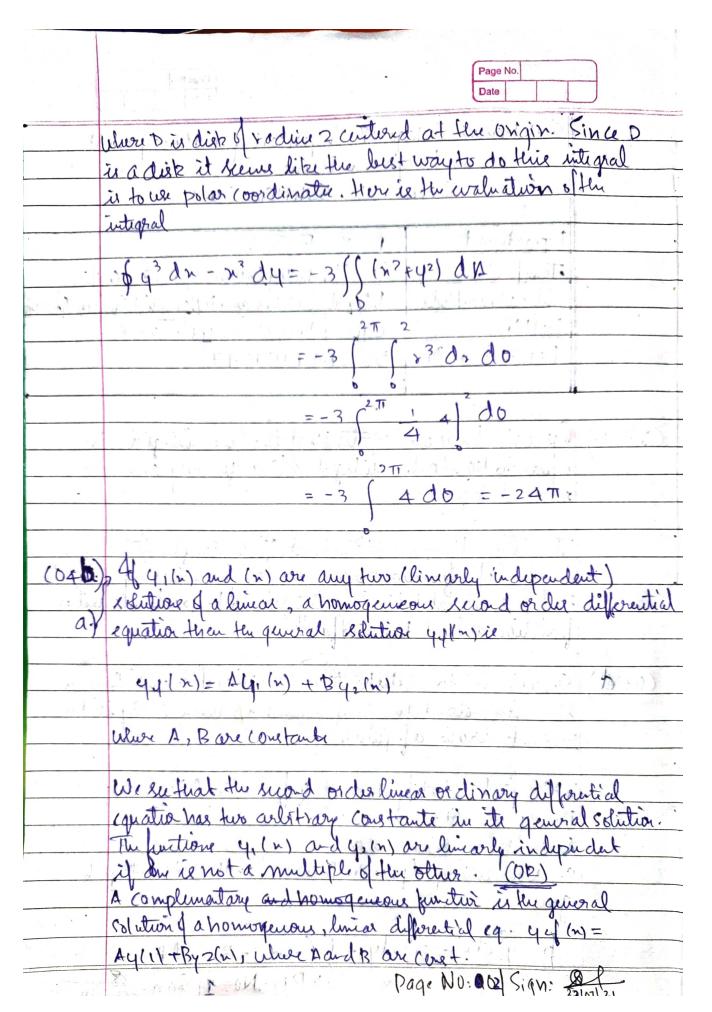
	Page No.
	GH Raisoni College of Engineering & Hamagement Wagholi, Pune
	CAE - IT SUMMER 2021
	Department F.Y B. Tech
	Tom Scation TermII Dated Enamination: 2307/21
	Subject Namicode Integral Calculas and Differ partial Equations liberton
	ROLLNO: CTO Name: Swayam Torode
	Registration No 2020AIFT 1101047
(03a.)	Execus's throrem status that the line integral is equal to the doubt integral of their quantity over the
	equal to the double integral of this quantity over the
	enclosed region.
,	The Stobil theorem Statusterat " the surface integral of
1 - tous	the and of a function over a surface bounded by a cloud
May Wike	Eurlas is equal to the line integral of the particular vitor
	fere curl of a function over a surface bounded by a closed surface is equal to the line integral of the particular vitor function around the surface?
(03 4)	Some how to stailer the condition of Queen & Turan
	Since it is cloud and Simple and so there really into
	So, when to s'ating the condition of grand Thursen Ring it is closed and Simple and so there really isn't a reason to draw a figure.
J 1	Let's find identify P and Q from the line integral. P = 43 Q = -n3
www.	P= 43 1 Q=1-miles particles in and in the
2 5 4	K, we brow has - Sign.
	Co, Now wing Green Theorem on the line integral
-	give, at an ingertrack has been a
1	3
	b. y dn - 23 dy = []-3n2-342 dA. D Page No. 4 San: 41
	D Page No: 4 San:



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Ь.) Grün d3y - 2 dy2 - dy +24=0.
*	dn³ dn² dn
•	$D = \lambda u$
	dr.
*.	The state of the s
1	dry -2 dy2 - dy +2 y car la writter es >
	$\frac{d^2}{dx^2} \frac{dx}{dx}$
	$(D^3 - 2D^2 - D + 2) = 0$.
	(D-2)(D+1)(D=1)=0
	D = 21.1
	4 = (1 e + (2 e m2 n + (3 e - 1 n))
1	y= (1e2n + (2e1n+(3e-1n.
1	I what so I what is
) Lt (e4+2ny) dn + (ne4+2) dy=0 =0.
	m= 2ny+e4 & N= 22+ ne4
	dm = & (2nyter) = 2d24 + de1 = 2nte1.
	ay dy ay
	dN= 8(22+2e4) = dn2 + d ne4 = 2n + e4
	dn dn dn
*	
	$\frac{1}{dy} = \frac{dN}{dn}$
ephonologica e una estad deservada e un estad deservada e un estado de	Page: 03 Sign: 23/07/25
1 (11.4)	1 23(01)21

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en ergerigtendeur sond die Schoppeng Anthropisies von		
	So, equ'(i) pe en ut dell equi	14:
	N 75	. 4
	(mdn= (2ny+c4)dn (yircox)	
	= 2 ny dn + l e dn.	
	2 2 ny dn et et dn.	
	C C C C C C C C C C C C C C C C C C C	
	= 24 ndn + e4 dr.	
	= 24 22 + c4 x + G = 24+x e4	t(1->/3
	Z III	
	Ndy = (22+ ney)dy +	9
. in	Ndy = (2+ ney)dy	
	Z (2) ((4) - (5) = (2)	
	= n2dy + (netdy.	
	1000- 0-4k (SC+ 1'200) to ct (pre+ Pa) 11	OM B)
	- Carte 1 - 1 - 3 House Man principal	
1.400	From Eq @ and B. harman	
	y to Y/a	
*	$n^2 q + n e^q = 0$.	
- +	abilité réquired solution	
,	No.	
	Wind with the section of the section	
	at phase	

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	" N = 1
(03b)	let 4= 1-x3
	-d 7(1) -x(11, 41+) =(t, 1-+3)
	(F-dn= (2ydn+(1-n)dy
	$= \left(2 - 2t^3 dx + - \right) + \frac{2}{dt}$
	2
	$= \left((2-2+3) - (1-+) (9-3)^{2} \right) d$
	$=$ $(2-21^3+31^2-31^3)d1$
	2
	$= \frac{[2t - t^4 - 01^3 - 3t^4]}{2} dt$
4,	4-1-1-1-2-2-1-3
	= [-24] = [-4 - 5] = [-24] - [-9]
	= -24 + 9 = -87
	4 4
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