matematika - C	
Trong 12	
109as 10	
	*** · * * * * * * * * * * * * * * * * *
1) Hitumodah S scz) dz de	engan Orientasi C Positif
	the war to the state of the war is an
(a) $\S(2) = 2^3 - 1$, C:	[2-1] = [
Jawab:	
C: 12-11=1 => 12-	. (1+02) =1
Lingkaran dengan pusat	C1/0) dan r=1
14	\
2	D .
-1 0 1 2	3 ⁷ ×
	YOUR 1 - 2 1 - 2 2 1
	2 t wri
-2	in marrie & a wind from excitable of more &
1	
Karana dagrahnya tarh	ordasarkan Teorema Cauchy-Gaursat $\int f(z) dz = \int z^3 - 1 = 0$
$s = gt = \begin{cases} x_{11} & f \\ y_{12} & f \end{cases} =$	
(c) $\xi(2) = 2^2$, c	: spojega dengan trak sudut -1,0, dan 22
2-2	1-11 : 2 - 2 - 2 : 27 <1
Jawab = 2í	
	Z=2 Littik Sngular
//	t =2 € C (x+Y) is now by M
/ ['	f analitik di dalam dan pada c.
	s' kontinu di dalam dan pada c.
	Karena daerahnya terhubung sederhana, dan c Untaran
1 0	terbubly sederhana, f(t) analysik, maka berdasarkan
	teorema Cauchy-Gaursat, $\int f(x) dx = \int \frac{x^2}{x-2} dx = 0$
	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -
	f
	a again a said this is to the said this is the
SINAR	
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d7 5(t) = cos z , c: |z+2i|=1 Jawab: linguaran dengan purat (0,-2) dan r=1 I with will your 2 = 0 LASK smoular ¢ c 2=0 analper

didalam dan pada c. s' kontinu didalam dan pada c.

Karena daerahnya terhubung sederhana, dan c Untasan tertutup sederhana, sca) analogie, maka berdasarkan tearana Cauchy- Gauriat, & fiel de

by
$$S(t) = \frac{3}{2} - \frac{2}{2-21}$$
, $C: |t-22| = 1$

Jawab:

Misalkan 2=x+ty

= 3 . x = iylog not reach at with a

xxiy x-ig and mile is employed

= 13x - 2134 A

and the second of the second o

u(x,y) =

 $\frac{(x^2+y^2)^2}{(x^2+y^2)^2} = \frac{3x^2+3y^2-6x^2}{(x^2+y^2)^2} = \frac{-3x^2+3y^2}{(x^2+y^2)^2}$

(CENES)

* 19 (1/9) = -3 (x +42) - (24), C-34)
(X2 4A	2) 2
$= -3x^2 - 3y^2 + 6$	by ²
(x2 +y2)2	
= -3x2+3y2	11-47 1 2 3-11
(x² ty²)²	·
	De la constant de la
* Uy (x,y) = O(x2+y2) - (3x)	(24)
(x2 ty2)2	(, 2 \ 1 ×2)
= - 6xy	(· · ·)
(x24,2)2 (1)4) of for the first of the first
	-1-
* /x(xx) = 0(x2+43)-(-32)(5x)	Dank /
(x24y)2	
= 6xy	Charles and an area of the
(x2442)2	1 2/4 - 1 (A) (A) (A) A A (A) 12 (A) A . (A) (A) (A) A . (A) (A) (
	2 - L C 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Karena Ux(x,y) = Vy(x,y) dan	Uy(x,y) = -Vx(x,y), maka (CR berlaku
: & analain di c	·1つではついというはなりはよりできます。 こうかはん = とり
	2642 7 19.00(6.7)-7.00 (1.9)
∫ 3/2 d3 =0 (1)	
	* - 0/8 7 2 × 4 8 1/2 5 1
Pandang: 2 (Con) 13	(1) (1) (2) 2) 2m (20) 2 (m 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
₹-21	con the contract x; 'N d . :
misalkan 2=x+sy	TON XIVE A CAST WE TANK TO WEED A CAST
2 = 2	CREATE IS A TOTAL AND THE RESERVE OF THE STATE OF THE STA
2-21 X+14-21	
= 2 . x - 1 (y-2)	For Eskill C C vibink scommanders
x+2(y-2) x-2(y-2)	by a fight of the second of
= 2×-22 (y-2)	. The the second of the
x 2 +(y-2)2	X S
2x + -2i(y-2)	a clay a complete
×2+(9-2) ×2+(9-2)2	Enger Sidne . Depri Canier Parry
4(x,y) = 2x ; V	(xy) = -2y+9
x++ (y-y2	x2+(Y-2)2
Ux (x,y) = 2 (x2+(y-2)2)-2x(2x)	
(x2+(y-2)2)2	
= 2 (x2+y2-4y+4)-4x2	$= 2x^{2} + 2y^{2} - 8y + 8 - 4x^{2} = -2x^{2} + 2y^{2} - 8y + 8$ $(x^{2} + (y - z)^{2})^{2}$ $(x^{2} + (y - z)^{2})^{2}$

$u_{y}(x_{1}y) = 0 - 2x(2(y-2))$
$(x^2 + (y-2)^2)^2$
2x (2y -4)
(x²+(y-2)²)²
= -4xy + 8x = -(4xy - 8x)
(x2+(y-2)2)2 (x2+ (y-2)3)2
Vx(xx) = 0 - (-24 +4)(2x)
(x 2 + (1/-5) 2) 2
$= - (4 \times y + 8 \times)$
(x2+(y-2)2)2
= 4×9-8×
(x2+(y-2)) ²
$Vy(xy) = -2(x^2+9-2)^2) - ((-2y+4)-2(y-2))$
(x2 + (y-y2)2
$= -2 (x^{2} + y^{2} - 4y + 4) - ((-2y + 4)(2y - 4))$
(x2+(y-2)2)2
= -2x2-2y2+8y-8-(-4y2+8y+8y+6)
(x + (y - v)) 2
= -2x2-2y2 +dy-8+ 4y2+6y +16
(x2+(y-2)2)2
z -2x2 +2y2 -8y48
$(x^2+(y-2)^2)^2$
Karena $U_{\mathcal{R}}(x,y) = V_{\mathcal{G}}(x,y)$ dan $U_{\mathcal{G}}(x,y) = -V_{\mathcal{R}}(x,y)$, maka PCF berlaka
5 analogik dic
$\int \frac{2}{100} dx = 0 (2)$
έ 2-21
Pari (V dan Cz)
$\frac{2}{2} \frac{5(2)}{2} = \frac{2}{2} \frac{(3)}{2 - 2i} d^2$
= 0 - 0
= 0

1	
_	lawab.
1	fisalkan : 2 = X+Ey
	f(+) - e-st
	: 6 - (x+ch) +
	$= e^{-(\kappa^2 + 2\kappa (y - y^2))}$
	$= 6 \cdot (\lambda_1 - \lambda_2) + i(-5x\lambda)$ $= 6 \cdot (\lambda_1 + 5x\lambda) - (\lambda_1 + \lambda_2)$
	= 6 (35-X2) CLE (-5XA)
	= (6 As -x3 . cos (sxA)) +! (-6 As-x3. con (sxA))
	u(xy) - (1) - (xy) - (xy)
	1/2+ x1
	$((x,y) = e^{y^2 - x^2} \cos(2xy)$
_	$f^{(x)} = -3x^{(y)} + e^{(x^{(y)})} + e^{(x^{(y)})} + e^{(x^{(y)})}$
	$= -2e^{y^2-x^2} (x \cos(2xy) + y \sin(2xy))$
-	seed for same will reclaim yet a state or eld when it
	$y\lambda = (y\lambda) \delta_{x,y} - (x\lambda) + \delta_{x,y} - (x\lambda) (-200 (x\lambda))$
	= 2 e yt- xt (y. cos (xxy) - x xn (2xy))
	(i) 2 (i)
	$I(x,y) = -e^{y^2-x^2} \cdot Sm(2xy)$
	$V_X = (2x)e^{y^2-x^2} s_{in} (2xy) + (-e^{y^2-x^2})(2y)(cos.(2xy))$
	$= 2. e^{y^2-x^2} (x \cdot sm(2xy) - y \cdot cos(2xy))$
	$A_{3} = (-5A) 6_{A_{3}-X_{3}} (3xA) + (-6_{A_{3}-X_{5}}) (3xX(co2(3xA))$
	= - 5 6 h,-x, (A' 24 (5xx) + x' (02 (5xx))
1	ANOMA 2 - MASS ASSESSMENT OF A STATE OF A ST
	larena 2 = x+sy e C dipilih sembarang
-	U,V, Ux, Vx, Uy, Vy Kontinu
2	PCR berlaku (Ux= Vy dan Uy=-Vx)
D A	oko C anatonia anda a
*****	aka f analask pada c
	ehingga, verdalarkan Teorema Cauchy- Gaursat, Sisca) dz = Se-27d2=0
-	
-	1 1 1 1 X
	The second secon

Misalkan 8	sebarang Untalan tertutup yang tidak memuat nol.					
Carilah $\int \sin 2 d^2$ $\int a \cos b :$ $z = 0$ z						
					Karena daera	shrya terhubung sederhana, dan e lantasan terbutup sederhana, f(2)
					qualitik, ma	sk di dalam dan pada c. g) kontinu di dalam dan pada c ahnya terhubung sederhana, dan e lantasan terbutup sederhana, f(z) ika berdasarkan teorema Caucho-Gaursat, f f(z) dz= f snz dz=c
						5.
1						
2						