bes dins $\int f(z)dz = \int_{-\infty}^{z} f(z)dz = F(z_1) - F(z_2)$ J(202/dr=. 1 00 m/ del di o mel. 13 (y ci) dy = $\oint f(z)dz = 0 \quad \text{fill}$ かっていかってい -in sit le la 12706 9 f(z) dz = 217 j (Wonlo 8 gg)

Jeflarda sold flated : Jew out work of II Opice of to white the coins of the spirite of the s $\frac{3}{30} = \frac{30}{50+2} = \frac{30}{50+2} = \frac{30}{50} = \frac$

$$I = \int f(z)dz = \int zdz = ?$$

$$I = \int zdz = \int_{z}^{z} zdz = z^{2} \Big|_{(0,1)}^{(1,1)} = z^{2}y^{2} + y^{2}y^{2} = y^{2}$$

$$I = \int zdz = \int_{z}^{z} zdz = z^{2} \Big|_{(0,1)}^{(1,1)} = z^{2}y^{2} + y^{2}y^{2} = y^{2}$$

$$I = \int f(z)dz = \int zdz = \int (x+yy)(dx+y)dy = \int (x+y^{2}x)(dx+y^{2}x) = \int (y+y^{2}x)(dx+y^{2}x) = \int ($$

$$t = 2\pi i t = 0 \text{ det} \int_{0}^{2\pi} \left\{ 2\pi a (1 - smt) \right\} \int_{0}^{2\pi} \int_{0}^{2\pi} \int_{0}^{2\pi} dt \int_{0}^{$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$J = \int (z^{2} + z^{2}) dz = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} + z^{2}) dz = ? - rdv$$

$$I = \int (z^{2} +$$

J'w 01/2000 -4 00 (c) 8 m(\frac{7}{2}) d\frac{7}{2} = ? $-\pi$ $z = -\pi + jy$ $x = 2 = 2i + j\pi$ Z=n-38 : (1) (1) (3) = mus are of (1) (1) (5) o $z = -\Pi + y$ $C_3 + Z = 2I + yI$ $C_1 + Z = II + yY$ $-\Pi$ 1= 1n-y'ly = $J = \int_{C} \sin(2z) dz = \int_{C} \sin(n-yy)(dn-jdy) = \int_{C} +\int_{C} +\int_{C$ $I = \int_{-\pi}^{\pi} \sin dx + \int_{-\pi}^{\pi} \sin(\pi - jy)(-jdy) + \int_{-\pi}^{\pi} \sin(\pi - j\pi)dx + \int_{-\pi}^{\pi} \sin(\pi - jy)(-jdy)$ $J = o + (-G(I - Jg))|_{I}^{II} - G(N - JII)|_{I}^{II} + (-G(-II - Jg))|_{I}^{o} = Gh_{II} - I + I$

 $2 = re^{\frac{2\pi}{4}} \int_{A}^{B} \frac{\partial}{\partial z} = e^{\frac{2\pi}{4}} \int_{A}^{A} \frac{\partial}{\partial z} dz = \frac{\partial}{\partial z} \int_{A}^{B} \frac{\partial}{\partial z} dz = \frac{\partial}{\partial$ $I = \int \overline{z} \, dz = \int c + \int + \int = \int x \, dx + \int e \cdot je \, da + \int re \cdot e \, dr$ (c) $\begin{cases}
z = e \\
dz = dx
\end{cases}$ $\begin{cases}
z = e \\
dz = je
\end{cases}$ $\begin{cases}
z = e \\
dz = e \\
d$ I=1/2+11/4-1/2=21/4 (N) NJO 1/2 SJ-26). De et Mily de glovis (C)

 $I = \int_{0}^{2} dz = ?$ $I = \int_{0}^{2} dz + \int_{0}^{2} (2+yy)^{2} (ydy) + \int_{0}^{2} (3y^{2} + yy^{2})^{2} (2+y)dy = m$ $\int_{0}^{2} dz = ?$ $J = \frac{7}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ $\frac{1}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ $\frac{1}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ $\frac{1}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ $\frac{1}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ $\frac{1}{3} + \frac{1}{3}j - \frac{7}{3} - \frac{1}{3}j = 0$ - ON O'W S W S O'S Was

 $I = \int \overline{2} dz = 7 - 40^{2}$ -1 $\int_{\infty}^{2} \int_{0}^{2} \int_{0}^{2}$ $\frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}} = \frac{1$ $I = \int jx d0 = j0 = 2\pi j$

 $\frac{\text{df(3)d2} = 0}{(0)}$ 2-2 = per igg !- U, s - in V dily din'is' الله عن من در المالم برهارا) الناسيم و من و المالي الناسيم و من و الماليم برهارا) الناسيم و من و من و من و من و $I_{1} = \oint_{C} (2-2.)d2 \implies I_{1} = 0 \qquad \text{if} \qquad I_{2} = 0 \qquad \text{if} \qquad I_{3} = 0 \qquad \text{if} \qquad I_{4} = 0 \qquad \text{if} \qquad I_{5} = 0 \qquad \text{if} \qquad$ Licis: on My 17 I2 = \(\frac{1}{2-20} \) \dt . of first first fitte = -

P1 . e Si clos vine vier P2 - . . - , visto o listo vine tiste $\frac{d}{dt} = 0$ $\frac{d}{dt} = 0$ فقیم لوگی کوری _ در تفویم کوکی عداره مر محسی برای اجاک باید اجاک نیز بولت مایند ولی لوری اربین کی در که نرط موسکی الحاکل را صرف نخود وفقط کرسی بوران (عاکم لارم ران قف لول ما سال.

 $\int_{0}^{\infty} \frac{f(z)}{z-z_{0}} dz = 2\pi j f(z_{0})$ (c) · 30 I= f e d2 C: 17-11-3 (c) 7(2+1) (c) 2(2+1) (d) 2=0 bú (d) 2=0 bú $I = \frac{e^2}{1 - e^2} dz = \frac{e^2}{1 - e^2} dz$ 2(2+1) $= 2\pi j e - 2\pi j e = 2\pi j (1-e)$

الرال لوائي درجاب على - از الحاك در دراى دولق كانتور كية (ع) على باند و حلى الماد و على الماد و الماد و الماد الماد و الماد الماد و الماد $\frac{\int \frac{f(t)}{(t-t_0)^{n+1}} dt}{\int \frac{e}{z^2(t+2)}} \cdot \int \frac{u(t)}{u(t)} \frac{u(t)}{u(t)} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{dt}{z^2(t+2)} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{dt}{z^2(t+2)} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ $\frac{e}{z^2(t+2)} \cdot \int \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt} \frac{du}{dt}$ by in b 9 Dig of 121= et = 00000 in in in in 100