$$T = T.$$

$$T$$

$$\begin{cases} T(\chi,0) = 0 & 0 < \chi \\ T(\chi,0) = T_0 & \chi < 0 \end{cases}$$

$$\frac{T}{V} < 0 < \frac{VT}{V}$$

$$T = A \arctan \frac{y}{x}$$

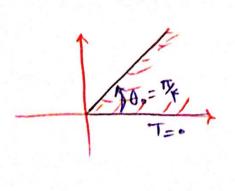
$$T(x_{20}) = Arc \tan \frac{o}{x} = o = > 1$$

$$0 < x$$

$$T = A \arctan \frac{\sigma}{\alpha}$$

$$T(x,0) = Arctan \frac{0}{x} = 0 = >$$

$$T(x,o) = Aarctan \frac{o}{\alpha} = T_o = A \pi = T_o = \frac{T_o}{\pi}$$



$$W_{1} = Z^{*}$$

$$T = T_{0}$$

$$T = 0$$

$$U_{1} = Z^{*}$$

$$T = T_{0}$$

$$U_{1} = Z^{*}$$

$$U_{2} = Z^{*}$$

$$U_{3} = Z^{*}$$

$$U_{4} = Z^{*}$$

$$U_{5} = Z^{*}$$

$$U_{7} = Z^{*$$

$$T = \frac{T_{0}}{\pi} \operatorname{Arc} \tan \frac{V_{1}}{V_{1}} = \lambda U_{1} = 2^{\frac{V}{2}} (x+iy)^{\frac{V}{2}}$$

$$= \sum_{i=1}^{N} \operatorname{Arc} \tan \frac{V_{1}V_{1}^{2} - V_{1}V_{1}^{2}}{\chi^{\frac{V}{2}} - V_{1}V_{1}^{2}}$$

$$= \frac{y(x)}{\chi^{\frac{V}{2}}} = \frac{dy}{dx} = \lim_{i \to \infty} c^{i} le \frac{1}{2} e^{i} c^{i} c^{i} e^{\frac{1}{2}} e^{-\frac{V_{1}V_{1}^{2}}{2}} e^{-\frac{V$$

T = A+ TI-TO DI + TY-TI DY

T=0 T=0

 $T = 0 + \frac{T_1 - 0}{\pi} \operatorname{Arc} \tan \frac{\vartheta_1}{u_{1-1}} + \frac{0 - T_1}{\pi} \operatorname{arctan} \frac{\vartheta_1}{u_{1+1}}$ $T = 0 + \frac{T_1 - 0}{\pi} \operatorname{Arc} \tan \frac{\vartheta_1}{u_{1-1}} + \frac{0 - T_1}{\pi} \operatorname{arctan} \frac{\vartheta_1}{u_{1+1}}$

T = TI arctan cosxsinhy Ti x

sinkcoshy - 1

Arctan cosxsinhy

binxoshy +1

Z= xtt)+iytt) : blā [][
W= ult)+ivtt): ja dlā [[

tel=[a,b] CR; (p.c.)

$$t \in L = [a,b] \subset R;$$

$$\int_{a}^{b} u(t) dt = \int_{a}^{b} u(t) dt + i \int_{a}^{b} v(t) dt \Rightarrow y_{i} = 0$$

$$\int_{a}^{b} u(t) dt = \int_{a}^{b} u(t) dt + i \int_{a}^{b} v(t) dt \Rightarrow y_{i} = 0$$

$$\int_{a}^{b} y \, \omega(t) \, dt = y \int_{a}^{b} \omega(t) \, dt$$

$$\int_{a}^{b} Re(\omega(t)) \, dt = Re \int_{a}^{b} \omega(t) \, dt$$

$$\left| \int_{a}^{b} \omega(t) \, dt \right| \leq \int_{a}^{b} |\omega(t)| \, dt$$

$$\left| \int_{a}^{b} \omega(t) \, dt \right| \leq \int_{a}^{b} |\omega(t)| \, dt$$

$$\left| \left(Y \right) \right| = \left| \left(Y \right) \right| \left| \left(Y \right) \right|$$

$$r_{\circ}e^{i\theta_{\circ}} = \int_{a}^{b} w dt$$
 $r_{\circ}e^{i\theta_{\circ}} = \int_{a}^{b} w dt$
 $r_{\circ}e^{i\theta_{\circ}} = \int_{a}^{b} w dt$

Re
$$(e^{i\theta}\omega t)$$
 $\leq |(e^{i\theta}\omega t)| = |e^{i\theta}||\omega t| = |\omega t|$

$$\int_{a}^{b} \operatorname{Re}(e^{i\theta}\omega t) dt \leq \int_{a}^{b} |\omega t| dt$$

$$|z'tt| = \int_{a}^{b} |z'tt|^{2} + |z'(a)|^{2} = \int_{a}^{b} |z'tt| dt$$

$$t = Q(r)$$

$$L = \int_{a}^{b} |2'(\alpha u)| |Q'(r)dr| = \int_{a}^{b} |2'(r)|dr$$

$$L = \int_{a}^{b} |2'(\alpha u)| |Q'(r)dr| = \int_{a}^{b} |2'(r)|dr$$

$$\int_{a}^{b} |2'(u)| dt = \int_{a}^{b} |2'(u)| dr$$

$$\int_{a}^{b} |2'(u)| dt = \int_{a}^{b} |2'(u)| dr$$

$$\int_{a}^{b} |2'(u)| dt$$

= Jc (ux'- wy') dt + i Jc الترالمعسى Godle المان المراف المان الكتابات : 1: White 1840 (17 p.c. eir (: ··· (: ·· (: ·) * $\int_{-c} f(z)dz = -\int_{c} f(z)dz$ ازط به ۵ (میلین): c :(ما ریکی کای اتعال: ریکی کای اتعال: ریکی خلی ددارد: $\int_{C} (af+bg) dz = a \int_{C} f dz + b \int_{C} g dz$ | \int f dz | \langle \int | \f(z) | | z'(t) | dt \langle M \int | \tau C1 = 08 -> x= 1/4 -مثال:

$$f(z) = z^{*}$$

$$(c_{1}) \text{ Successful (2)} (1)$$

$$\int_{C_{1}} f(z) dz \Rightarrow z = e^{i\theta} \Rightarrow z^{*} = e^{i\theta}$$

$$I_{1} = \int_{\pi}^{\infty} e^{-i\theta} \left(i e^{i\theta} d\theta \right) = i\theta \Big|_{\pi}^{\infty} = -i\pi$$

$$I_{V} = \int_{CV} f(2) d2 = \int_{T}^{VT} e^{-i\theta} (ie^{i\theta}) d\theta = i\pi = i\pi = i\pi + i\pi = i(VT)$$