$$\omega = \frac{az+b}{cz+d} = \frac{a(z+d_c)-db}{c(z+d_c)} = q_c - \frac{ad_c-b}{c} \frac{1}{z+d_c} = q_c + \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{b\omega}{cz+d} = \frac{a(z+d_c)-db}{c} + \frac{b}{c} = q_c - \frac{ad_c-b}{c} \frac{1}{z+d_c} = q_c + \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{b\omega}{cz+d} = q_c - \frac{ad_c-b}{c} \frac{1}{z+d_c} = q_c + \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{b\omega}{cz+d} = q_c - \frac{ad_c-b}{c} \frac{1}{z+d_c} = q_c + \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z}$$

$$v_c \omega = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = \frac{a}{c} \frac{bc-ad}{c} \frac{1}{z+d_c} = k_1 + k_2 + \frac{1}{z+d_c} = k_1 +$$

ゴルルルリルのかーだ - ひご W=flz1=? (W,=1 21=2 $\frac{(W-WV)(W2-W3)}{(W-W3)(W2-W1)} = \frac{(2-21)(22-23)}{(2-23)(22-21)}$ $\frac{2}{2}=-1$ Z3=1 W3=y $\frac{(\omega-1)[-2j]}{[\omega-j][-j-1]} = \frac{-2}{2-1} \Longrightarrow \frac{\omega-j}{\omega-j} = \frac{j-1}{(2-1)}$ (W-1)(-j-j)(Z-2)(-1-1)[w-j](-j-1) (Z-1)(-1-d) · Tinoling of the Jest

W= Cot = Culntjy = Conchy-junshy # W= 802 -160 = (20) = $\chi = \alpha \quad \Rightarrow \downarrow \frac{|\nabla y|}{2} = \begin{cases} u = \cos \cosh y \\ v = -\sin \cosh y \end{cases}$ $V = -\sin \cosh y \qquad \Rightarrow \begin{cases} u^2 - \frac{v^2}{2} = 1 \\ \cos \alpha + \frac{v^2}{2} = 1 \end{cases}$ Galo wo-voil y=a, $\alpha \neq 0$ $\frac{u^2}{c_sha} + \frac{v^2}{s_mha} = 1$ 1 R= KT

 $W = \cos 2$ $V = \cos 2$ V = $\pi = \Pi, \quad \pi > 0 \implies \begin{cases} u = G_{1} + G_{2} + G_{3} + G_{4} \\ v = -S_{1} + G_{4} + G_{5} \end{cases}$ $0 = G_{1} + G_{2} + G_{3} + G_{4} + G_{5} + G$

(ing of control with we cohe we subject to with the cohe of the co 一道一世一世一世一世一世 (TIW W = Cht v - u = 1 - v - v = 1 - iv $v^{7}u^{2} = \frac{1}{2}$ $v^{7}u^{2} = \frac{1}{2}$ $W = \cosh z = \cosh(x + jy) = \cosh x \cosh y + j \sinh x \sin y \qquad (98)$ $y = \sqrt{4}$ =) $\begin{cases} u = \sqrt{2} c_1 h u \\ v = \sqrt{2} s_1 h u \end{cases}$ = $\begin{cases} u = \sqrt{2} c_1 h u \\ v = \sqrt{2} s_1 h u \end{cases}$ = $\begin{cases} u = \sqrt{2} c_1 h u \\ v = \sqrt{2} s_1 h u \end{cases}$

 $W = \ln z = \ln r + jo \implies \begin{cases} u = \ln r \\ v = 0 \end{cases} \xrightarrow{\int} -\pi \langle o \rangle = \pi \langle o \rangle$ bé i (10) $W = \ln 2$ $|\langle r \langle 2 \rangle \rightarrow \langle hr \langle l_1 2 \rangle$ $=) (0 \langle u \langle l_1 2 \rangle)$ $| 2 \rangle 2$ $0 \langle 0 \langle \overline{l} \gamma_1 \rangle \rightarrow (0 \langle 2 \rangle \langle \overline{l} \gamma_2 \rangle)$ ترف نگائے۔ جمری : عرف ارزان و جھت زادید بن رز محمی بیراز نگائے۔ نابت بایرنگائے۔ . f. 2 (2) · NU O ON f(2)=0 ble je i flz) Ome ci : in

 $\frac{\partial \omega_{2}}{\partial \omega_{2}}, \quad \omega = f(2) = 2 \quad - \int \mathcal{L}$ $\implies W = f(z) = z^2 = x^2 + 2jy$ $u = u^2 - y^2$ v = 2xyx = 2 - 3 { u = 4 - 4 = $u = 4 - (2/4)^{2}$ } v = 44 $y = 2 \implies \begin{cases} u = \chi^2 - 4 \\ v = 4\pi \end{cases}$ سامع مادد کور سن دری سراز مات کرس در کوری سراز مات کرس در کوری س

 $f(z) = \sum_{n=0}^{\infty} \alpha_n (z-z_0)^n$ $\alpha_n = \frac{f(z_0)}{f(z_0)}$: el él i i i N62=0 11: Oser · dhis is wat 2120 =: 0 -1 e=1+2+21+21+21+ < : Cn 2 $C_{0} = 1 - \frac{2^{2}}{2!} + \frac{2^{4}}{4!} - \frac{2^{6}}{6!} + \cdots$ 21400

JUNG ODDS - NOW DIN & Mis rows rib - di ·NUS -N Z=0 Lévelo flt1= 1+23 $f(2) = \frac{1}{1+2^3} = \frac{1}{1-(-2^3)} = 1+(-2)+(-2^3)^2+---$ 2=0 éédo flz)=lu(1-2) bo-di $f(z) = lu(1-z) \implies f(z) = \frac{-1}{1-z} = -\frac{1}{1-z}$ = -((+2+2+2) f(z) = \f(z)dz = -(z+2) + 23 + 1-)

$$f(z) = \frac{10}{4z-3} = \frac{10}{4z-8+8-3} = \frac{10}{4(z-z)+5}$$

$$f(z) = \frac{2}{4z-8+8-3} = \frac{10}{4(z-z)+5}$$

$$f(z) = \frac{2}{4z-8+8-3} = 2\left[\frac{1}{1+\frac{4}{5}(z-z)}\right] = 2\left[\frac{1}{1+\frac{4}{5}$$

$$\frac{2=2}{2^{2}-52+6} \quad b-dc$$

$$\frac{1}{1+1} = \frac{1}{2^{2}-52+6} = \frac{1}{(2-1)(2-3)} = \frac{A}{2-1} + \frac{B}{2-3}; \quad A = (2-2)f(2) = -1 \\
\frac{1}{2-2} = \frac{1}{2-2} = \frac{1}{(2-1)-1} = \frac{1}{2-3} = \frac{-1}{1-(2-2)} = -\frac{1}{1-(2-2)} = -\frac{1}{1-(2-2)} = \frac{1}{1-(2-2)} = \frac{1}{1-(2-2)} = \frac{A}{2-2} = \frac{A}{2$$

سرند نعم معرد (نسن): تعفرا ماست که (۱۶) در آن میس ت می در مورمهای به نهای . _ v/omé &>0, E · Nober 100 job 2=0 å flz1= 10-00 · Whomes on the job pie (is I see I while it do on in other $\frac{1}{2} = \frac{1}{2} = \frac{1}$

· [7,9, ~ who oss flz = 12-3)4 $\int |z| = 1 + \frac{1}{(z-3)^2} + \frac{1}{2!(z-3)^2} + \frac{1}{3!(z-3)^3} +$ $\frac{1}{31 - 3} = \frac{2-3}{2}$ $\frac{1}{31 - 3} = \frac{2-3}{3} = \frac{2-3}{3}$