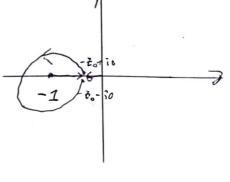
$\log\left(\frac{7-1}{7+1}\right) = f(7)$ g(7)= 2-1 Boznoscusse n. fembreum: -1, 1,00 $h^{2} = \frac{1}{2} = 2 \quad = 2 \quad f(\eta) = \log \left(\frac{\frac{1}{\eta} - 1}{\frac{1}{\eta} + 1} \right) = \log \left(\frac{1 - \eta}{1 + \eta} \right)$ Thoseker morem l = 0 in some and l = 1 $\frac{1}{2} \rightarrow 0$ noj Zo-cu. f(n.-io)= ln[10(n-io)] +f(n+io)+idargg Darg f = Darg (1+1) + Darg (1-1) = 0 f (no-io)=f(notie) u n =0 ne m. b. =7 2, -> 00 ne moreka b. ₹0= -1: $f(-z_{\circ}-i\theta) = l_{m} \left(\left| \frac{g(-z_{\circ}-i\theta)}{g(-z_{\circ}+i\theta)} \right| \right) + f(z_{\circ}+i\theta) + i \Delta \alpha + g g$ sargg= sarg(7-1) - sarg(2+1)= 27 f(-70-90) = f(-70+10) + 1-20 => -1 bygen m. b. Des 2 tre ourbugers pos acconomu u amben: +1- monden bembulant



BAYMEHAY M.N.

mayroen & notine

FP3191

$$dz = iRei4dy$$

$$I = \int_{0}^{2\pi} \frac{Rei4 - iRei4dy}{R+1} = \int_{e}^{2\pi} \frac{iR^{2}dy}{R+1} = \frac{R^{2} \cdot 2\pi i}{R+1}$$

$$R = 3:$$

NL.

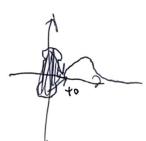
 $f(z) = (1+iz)^{3}(1-iz)^{1-3}$ f(+0) = 1 $f(-0) = \frac{7}{7} \text{ res } f(z) = \frac{7}{7}$

 $f(-0) = \frac{1}{2} \text{ res } f(z) = \frac{1}{2}$ $f(-0) = \frac{1}{2} f(-0) = \frac{1}{2} f($

 $f(-0) = \left| \frac{f(-0)}{f(+0)} \right| f(+0) e^{i \Delta \alpha i \eta} f$ -1 arg others chody $\Delta \alpha r \theta f = 2 \pi V$

f(-0)= 1 -1 (1-0) (110) 2-V (e27#5= e11#V

~ esf(2)',



f(z)= |f(z)| f(to) eisatot

Ucr-clumraj.

64= arctof =

Dairy = $\Im(\overline{1}_{2} - 8\varphi) + (1-\Im)(-\overline{1}_{2} + 8\varphi) =$ $= \Im(\overline{1}_{2} - 8\varphi) + (1-\Im)(-\overline{1}_{2} + 8\varphi) =$ $\Im(\overline{1}_{2} - 8\varphi) + 8\varphi - \overline{\chi} + \Im(\overline{1}_{2} - \Im) =$

$$20\left(\frac{7}{2}-8\varphi\right)-1\cdot\left(\frac{77}{2}-8\varphi\right)=\left(20-2\right)\left(\frac{77}{2}-8\varphi\right)$$

N9. $\int_{0}^{\infty} \frac{\log (x)}{x^{2} \delta(x+2)} dx = \int_{0}^{\infty} \frac{\log (x)}{x^{2} \delta(x+2)} dx$ \$ =] + Sc_+ Sca Rez g (2) = 1 21/8 Im = In (npupakubaro 4(2)= log(2) Im (5) e-iT/8 5 ...) = Im(72;) $\pi \sin (\pi/\ell)(\int_{0}^{\infty} \cos \theta) = \pi^{2} = \pi^{2} = \pi^{2}$ g (2,-10) = | g(2,-10) | g (2,+10) e isotgg = g (2,+10) e it/4

Re = Re 4 orto g = - 18 6 orto (2)= - 17 I sin # - Treost = C 4(20-10)= 044(20+10)+100+g2= 4(20+10)+297 I = T 2 cos (T) o arg 2€ 21 $\int_{C_{-}} = -I e^{-i\pi/4} - 25Ti e^{-i\pi/4} \int_{Q} \frac{dx}{x^{\frac{2}{1/8}}(x+1)}$ $\oint = I \left(2 - e^{-i\pi/4} \right) - 2\pi i e^{-i\pi/4} \int_{0}^{\infty} \frac{dx}{x^{2/4}(x+1)} = 2\pi i \operatorname{Pes} f(x)$ $f(z) = \frac{\ln(z)}{\frac{7}{8}(z+1)} - \frac{7^{1/8}}{z^{2/8}} \Big|_{z=-1} = \frac{\ln(-1)}{8^{-1}} = \frac{777}{e^{i\pi/8}}$ & 8 gg. 9 = - 211 2 e- 17/8 YMM. ase leacone & ma e: 17/8 I(e; 1/6 - e; 1/6) - 25: e; 1/8 5 dx 2-116(20+2) 3 - 252 I sin 7/8 - 11 e - 11/8 ca (conformer bée rea 21)

anden: I = Tr cos T/8 = Tr ctg. T/8/5:07/8

log 522+1

۶ _{= 0}

Brammen gbe begør: ropers u wranger.

g(2) = 52241

barggi 1. LA ST

f_(0)2 ln (g2)2 in f2(0)= ln(g2)=-7 K

g(-0)= g(+0). (g(-0)) e0019 = e17

g2(-0) = g(+0) (g(-0) / e sargg = e-it Bargg= 1 - F25 =- T

amben: : iT; - if

enés forsom f (0) = 2 M. R.

一下「丌

And eoropeopua rge bran. apr, 7 = JI722

 $f(z) = \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} = z^2 \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} z^n$ $= z^2 \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} z^n$ $= z^2 \left(\log (1+z) \right)$ Objectivent Z=a That naturne raque cagemolores? Fino parconarure que Surse. m. curryhar retopur B. Eorovil: Le ryrus borns Dingren, unosor zaulennont. Max a myon La (2+2) ouebuges weern m. curr. 6 7:-1 => => cseagurned ym 171(1 V 2=1 (Ho He & 7:7) f(2)-? Imt 1-e-t te[0, 17] e = -; f(2); g(Z) = 2+Z son's g= 0. 4(2)= Ln(2+2) Ψ(2)= Ψ(0)+ln(/g(2)) +: Darggz = 0+ ln3+0 = ln3 f(z)= 22. ln3 = 4ln3

$$\frac{(2+1)^{\frac{7}{2}/2}}{2} = \int (7)$$

f(

$$f(\eta) = \frac{(\frac{1}{\eta} + 1)^{\frac{1}{\eta}}}{1} = \eta^{1 - \frac{1}{\eta}}$$

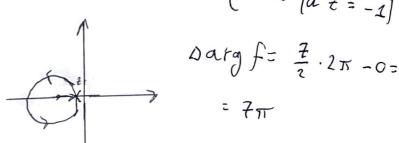
$$f(\eta) = \frac{(\frac{7}{\eta} + 1)^{\frac{7}{2}}}{1/\eta} = \eta^{1 - \frac{7}{2}} (1 + \eta)^{\frac{7}{2}} = \eta^{-\frac{5}{2}} (1 + \eta)^{\frac{7}{2}}$$

$$\eta_0 = 0 \qquad u \quad \eta_0 = -1$$

9 range 93.

m. K.
$$\frac{1}{2} - \frac{5}{2} = 1$$
 $\eta_0 = 0$ - Me m. bembi.

 $\eta_0 = 1 - m$. bembi.



Omb.: 777; 72-1