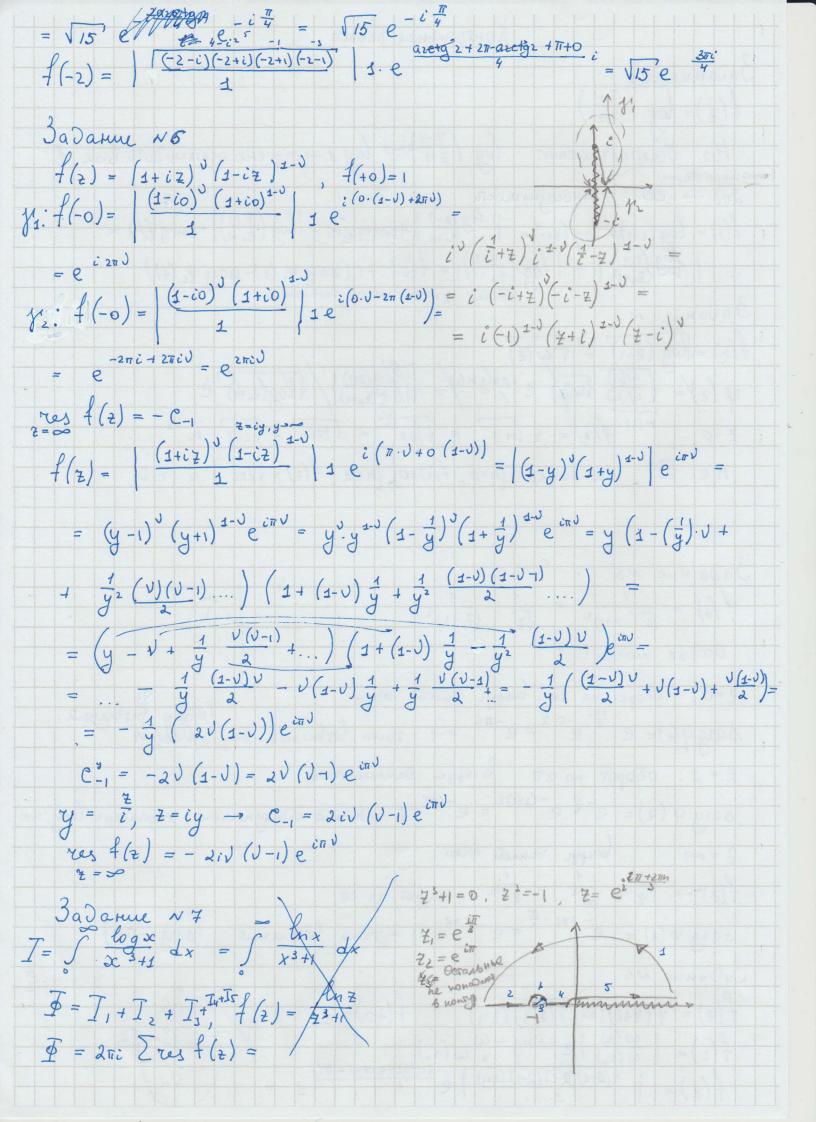
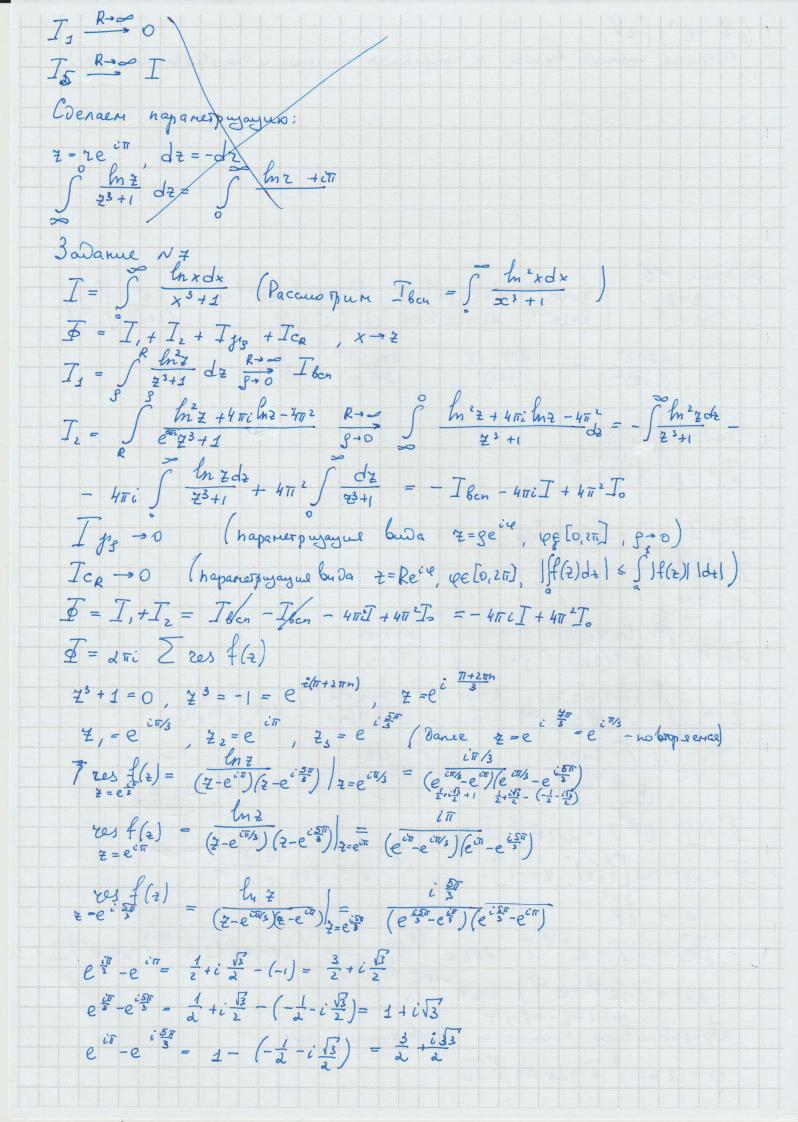
```
Kontponenal patera
                           JaJanue N1
                                         f(z) = log ( \frac{7-1}{2+1})
Ma Secronernoemu;
                                                                                                                                                                                                                                                                                                                                                      log (\frac{\frac{\frac{2}{-1}}}{2+1}) → log 1 → 0 = 0 Imognaznae r.
                                         f(z) = \log(z-1) - \log(z+1) = \log(z-1) + i \Delta \arg(\varphi_1(z)) - \log(\frac{z+1}{z_0+1}) - i \Delta \arg(\varphi_1(z)) = \log(z-1) + i \Delta \arg(\varphi_1(z)) - \log(z-1) = \log(z-1) + i \Delta \arg(\varphi_1(z)) = \log(z-1) + i \Delta \gcd(\varphi_1(z)) = 
                                         = | ln (\frac{(\frac{2}{2}-1)}{(\frac{2}{2}-1)}| - | ln (\frac{7+1}{2}-1)| + f(\frac{7}{2}-0) + i (\Daig \q, (\frac{1}{2}) - \Daig \q, (\frac{1}{2}) - \Daig \q, (\frac{1}{2}) - \Daig \q, (\frac{1}{2}) \)

Thought \( \frac{7+1}{2} - \Daig \q, \q, (\frac{1}{2}) - \Daig \q, (\frac
                                3 a Janue N2
                                f(z) = log (z+1) = 1 w(z)
                                            \psi(z) = \sqrt{\frac{\omega(z)}{\omega(z_0)}} \sqrt{\omega(z_0)} = \sqrt{\frac{\omega(z_0)}{\omega(z_0)}} \sqrt{\frac{\omega(z_0)}{\omega(z_0)}} = \sqrt{\frac{\omega(z_0)}{\omega(
                                                7 = 0, 7 = \sqrt{\ln 2} = \sqrt{\ln 2\pi i} = \sqrt{2\pi i} = \sqrt{2\pi i} \cdot n^{1/2}
                                                      n ∈ Z, manpumep: [n=0, f(z)=0], [n=1, f(z) = √2πi] 4 T. J.
                                Jadanne N3
                                                f(2) = \frac{1}{\sqrt{2}(2+i)^2} = \frac{1}{\sqrt{2}}(2+i)^2
                                               Ocobbe morky:
                                                7=0: 0δορος na 2π. boupyr Danner Form
                                         Dazg \varphi(z) = e^{-\frac{2\pi i}{2}} - 0.2 = e^{-\pi i} = -1 - 701 \text{ kg besterne (parg = -1)} = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2 = 0.2
                                                7 = 1: 050p0r na 211 Compye Dannon rowen
                                                Darg 4 (2) = e = e - (2112) = e - 471 = 1 - homa odnognamono xapantys (2019: -411)
                                                7 = 0 Conpyr Dannon rown
                                              f(2) -> 1/2 1/2 = 1/5/2 : 080pas 49 25
                                                Dazg φ(2) = e = = = -1 - Torka ber6 renne (Dazg: -5πi)
                                    Badanue N4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             B=ardg 1
                                                 f(z) = \sqrt{\frac{(2+i)(2-c)(z)}{(2+i)(2-i)(2-i)(2-i)(2+i)}} = \sqrt{\frac{(2+i)(2-c)(2-c)(2-i)(2-c)}{(2+i)(2-c)(2-c)(2+c)}} = \sqrt{\frac{(2+i)(2-c)(2-c)(2-c)}{(2+c)(2-c)(2-c)(2-c)}}
                                            f(z) = \sqrt{(2+i)(2-i)(2-i)(2+i)} f(+0) = 1
```





(e 3 - e 1) (e 3 (Octaetal nocusar by 1050 u upupalo moso muyor ou le Deiner bur eno noue vacre) Sadanne NJ $\int \frac{2dz}{(1z1+z)^2} = |z=ze^{i\varphi}, \varphi \in [0,2\pi] = \int \frac{z\pi}{(1z+z)^2} = |z=ze^{i\varphi}, dz=ize^{i\varphi}d\varphi| = \int \frac{z\pi}{(z+z)^2} = \frac{iz^2}{(z+z)^2} \int d\varphi = \frac{iz^2}{(z+z)^2} = \frac{z\pi}{(z+z)^2} =$ $= \frac{2\pi i z^{2}}{(z+2)^{2}} = \frac{2\pi i \cdot 16}{(4+2)^{2}} = \frac{2\pi i \cdot 46}{369} = \frac{3}{9}\pi i$ 3 avanne ng $I = \int \frac{\ln x \, dx}{x^{1/8} (x+i)}$ I = I, + I, + Igy + Ice , x -> 7 Ico - 0 $T_{2} = \int_{2}^{3} \frac{(\ln z + 2\pi i)}{z^{1/2}} dz \int_{8}^{2\pi i} \frac{\ln z}{s^{1/2}} dz \int_{8}^{2\pi i} \frac$ $= -e^{\frac{2\pi i}{4}} \int_{\frac{\pi}{2}}^{\infty} \frac{\ln \pi d^{2}}{2^{1/3}(2+i)} - 2\pi i e^{\frac{2\pi i}{4}} \int_{\frac{\pi}{2}}^{\infty} \frac{d^{2}}{2^{1/3}(2+i)}$ I = I - e T - ATIE To $\overline{I} = 2\pi i \operatorname{res} \left[f(z), z = -1 \right] = 2\pi i \frac{\ln -1}{(-1)^{1/2}} = 2\pi i \frac{e^{i\pi}}{e^{i\pi}} =$ $-\frac{2\pi^{2}}{e^{2\pi}/8} = I - e^{-\frac{2\pi}{4}}I - \lambda\pi i e^{-\frac{2\pi}{4}}I_{0} - e^{-\frac{2\pi}{8}}\lambda\pi^{2} = I(1 - e^{-\frac{2\pi}{4}}) - \lambda\pi i e^{-\frac{2\pi}{4}}I_{0}$ $-\lambda\pi^{2} = I(e^{\frac{2\pi}{8}} - e^{-\frac{2\pi}{8}}) - \lambda\pi i e^{-\frac{2\pi}{8}}I_{0}$ Jipupabru baen Muumore 4 Den Jourens noue cache 0 = 2 8in 8 I - 211 cos 7 To

 $-2\pi^2 = -2\pi \sin \frac{\pi}{\delta} T_0, \quad \pi = \sin \frac{\pi}{\delta} T_0 \Rightarrow T_0 = \frac{\pi}{\sin \frac{\pi}{\delta}}$ $\sin \frac{\pi}{3} T = \pi \cos \frac{\pi}{9} T_0 = \pi \cos \frac{\pi}{3} \frac{\pi}{\sin \pi/3}$ $T = \pi^2 \frac{\cos \pi/3}{\sin^2 \pi/3}$