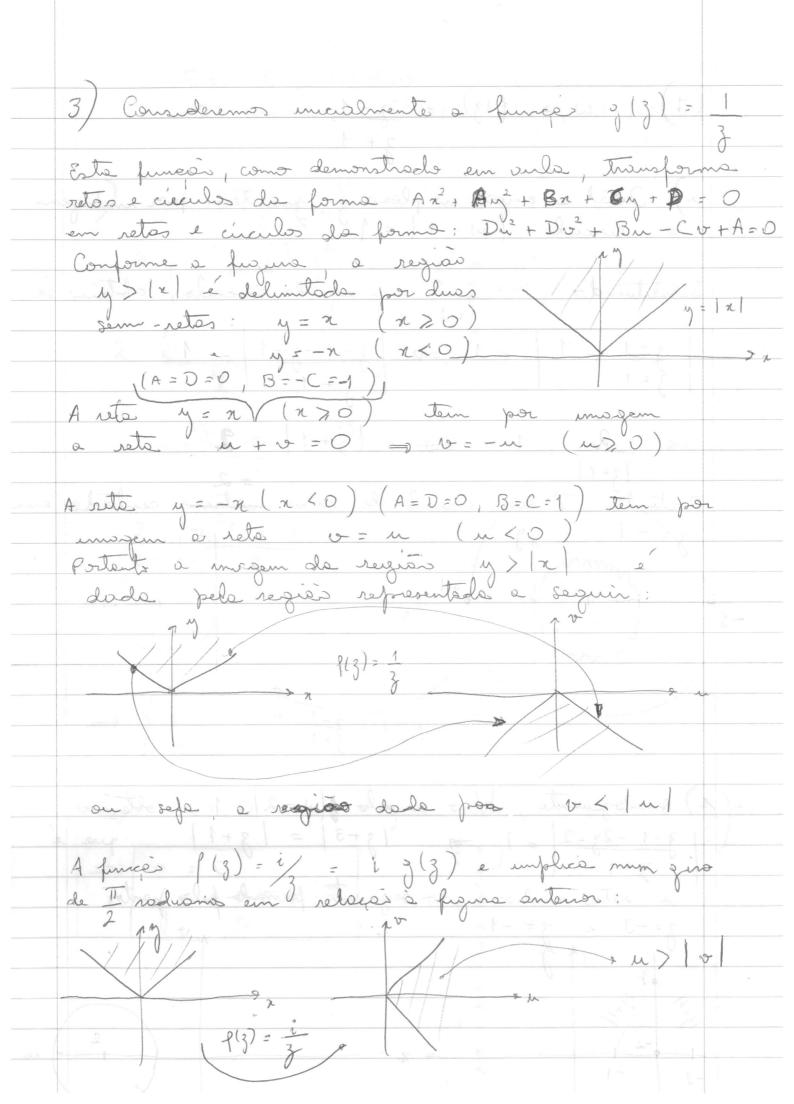
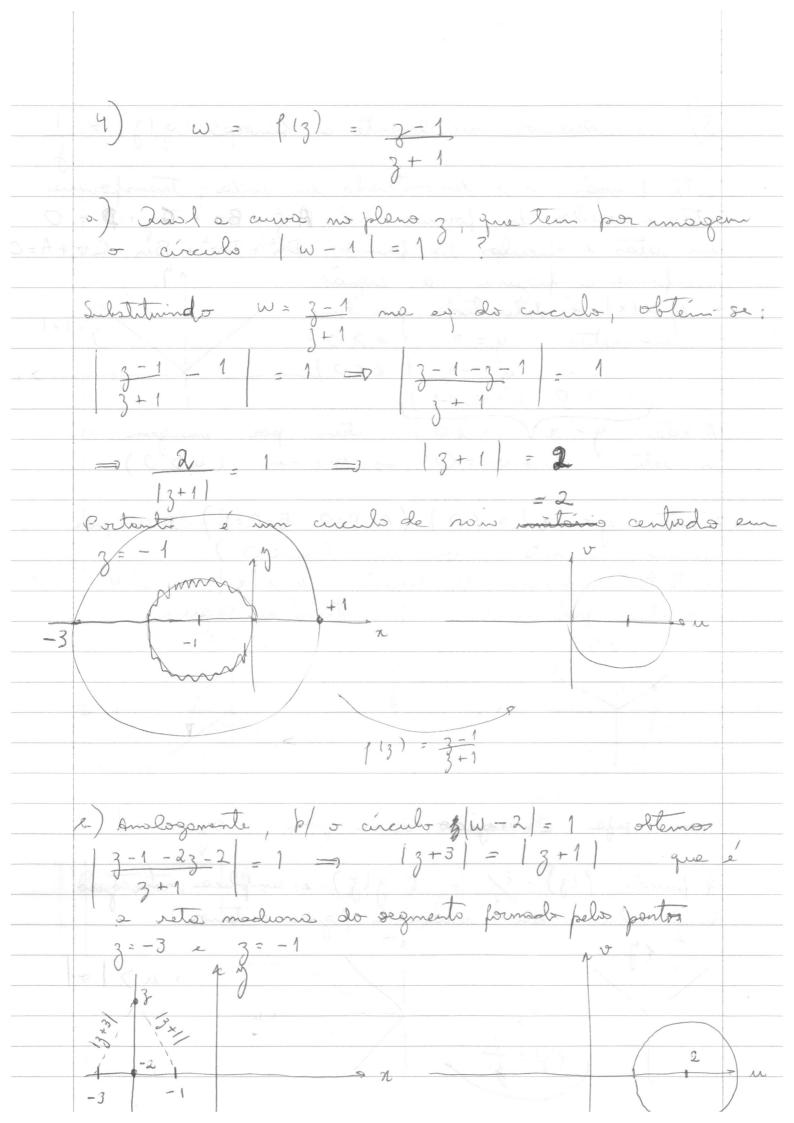
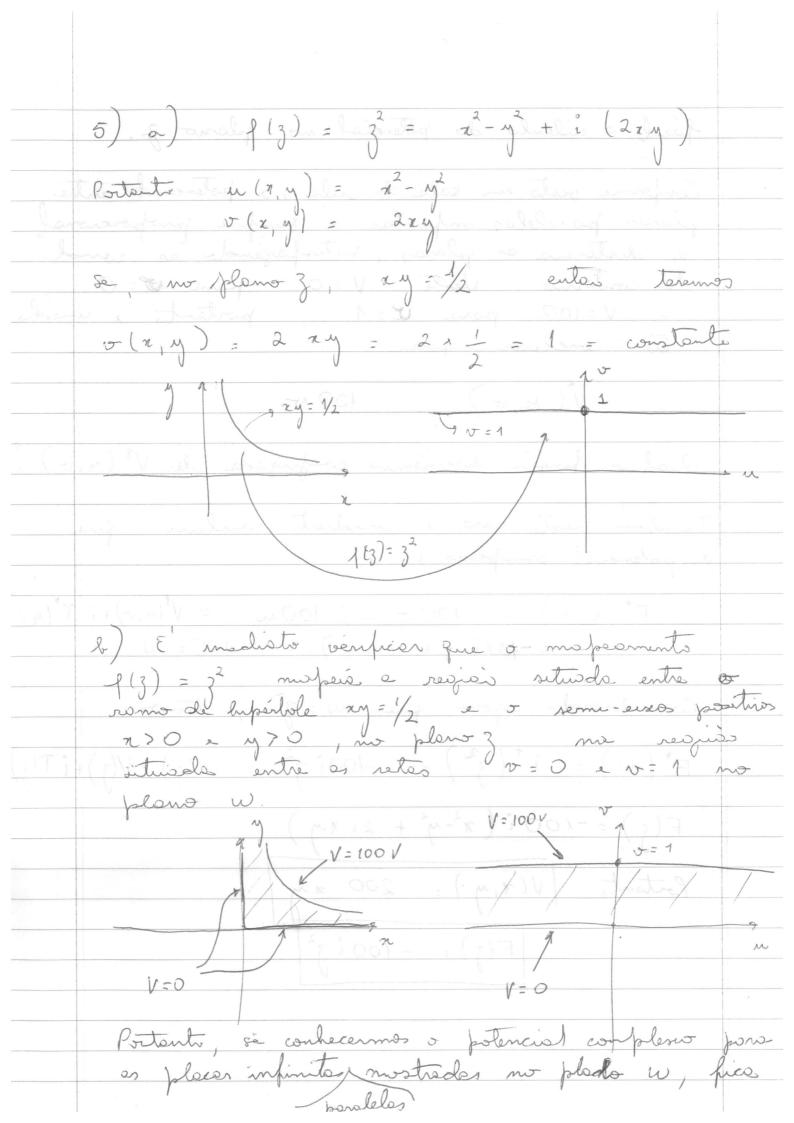
EE 400 Mélodos de Eng. Elétrice 2º prove - 15/05/2013 - prof Refail 2 (cosh 3) + (senh 3) = 0  $2\left(\frac{2^3+2^3}{2}\right)^2+\left(\frac{2^3+2^3}{2}\right)=0$  $2.\frac{27}{4}+2+\frac{-27}{4}+\frac{27}{2}-2+\frac{-27}{2}$ 323 + 323  $\frac{3}{2} \left( \frac{2^{3}}{2^{3}} + \frac{1}{2^{3}} \right) = -\frac{1}{2}$ cosh (23) = -1 lesh (2n) cos 2y = -1/3 senh (2n) sen 2y = 0 y = ± 11 TT ± mTT

2) 
$$u(x,y) = x^2 - y^2 + e^2 \sin y$$
 $\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial y} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x} = -\frac{\partial v}{\partial x} \quad (\text{cond. } C - R)$ 
 $\frac{\partial u}{\partial x}$ 







facil a calcula de potencial no plano z. Conforme visto en sals de suls, o potencial entre places posselles infinites à sempre porsporcional à distància es places, sutrafazendo es cond. de contiens. Veste V=0 poro 15:0 e V=100 para U=1, partents i media. 100 v Qual a função harmanica confuzada de V\* (4,4)? Tombem neste caso é mediste concluir que o potencial complexo é  $F^{\dagger}(n, \sigma) = 100\sigma - i 100n = V^{\dagger}(n, \sigma) + i T^{\dagger}(n, \sigma)$ = -100 i (n + i \sigma) = -100 i \w Considerande arga que W= 32, temos;  $F^*(w) = F^*(3) = -100i3^2 = F(3) = V(3) + iT(3)$  $F(3) = -100i(n^2 - y^2 + 2iny)$ Portents V(n,y): 200 ny  $F(3) = -100i3^{2}$ and analytics haised of the select of thetic in whenter motudes our place wy fine

rabalinan