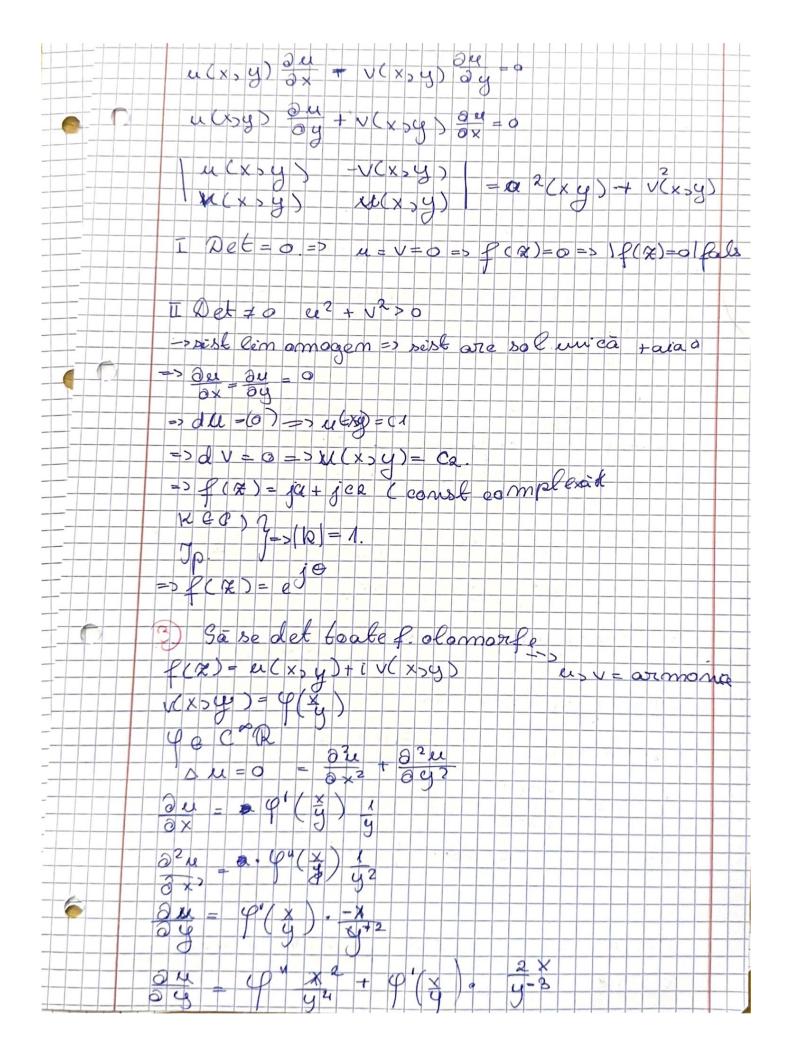


= x - jy Det 1 ?= sur e alomazfa sur tre sà avom de P(2) = 2 a x2 j + 22 + 22 - a x2+je P(Z)= Z²(1 - aj + 1 + 2 - a) + jc f(j)= -1 (4-a-aj)+3c=1+5j a - 4 = 1. => a = 8 $\frac{a+4c}{4} = 5$ 4c = 20 - 8 = 3c = 3. 2) Sa se det toate f. olomorfe pe Cpt care | f (♥) |=1. f(z) = u(x, y) + f(x, y) $f(x) = 1 = \int u^2 + v^2 = 2u^2 + v^2 = 1.1()x$ Coud C.R. Ou = Oy $\frac{\partial u}{\partial y} = \frac{\partial v}{\partial x}$ => 2 (u(x,y) = x) + 2 v(xy) = 0 () y x u(x,y) = 0 == x u(x,y) = 0 == x v(x,y) = 0 == x v(x,y) = 0



Δ u = q"(x)(y2+ y4)+ q"(x) = 0/-y2 600 diferentials 24 = 9(\$) (1+(\$)2)+9'(\$)-9'=0 Hot $\frac{x}{y} = \frac{1}{2}u = \frac{y^{1}(x)}{(1+t)^{2}} + \frac{2y^{2}(x)}{(x)^{2}} = 0$ $(1+t^{2}) = 2t = 2t + 1 = 0 = 2(t-1) = 0$ ((1+t). & (t))=0=>(1+t2). & (t)=C1 $=> \varphi'(t) = c_1 = \varphi(t) = c_1 \text{ anct} g(t) = c_2$ $u(x)y) = => c = \frac{c_1}{c_2} \cdot \text{anct} g(t) + c_2 \cdot c_2$ dv = dv dx + dy dy = - - x - C1 anctog C1 (x2+y2).dx = 0 y 3 y

=> + Cy 9 y (1+x2) => dv = 3 - x c1 + x2+y2 dx + y c1 x2y2 x2y2 dy V(Xy= 1+c12+x2+y2dx V(xyy) = + C1 = ln (x2, y2) + 8(y) vy(y) = +c(y) v'y(y) = y2 dy+4y3 y2 = xy2 = 0 u(x3y) 2 => f(x) = ciardy + ca+j. ex. em.

