Super Inip Module!

O \_afun

Q1. Derive Couchy Riemann Equation in Contesian form

Q2. Show that  $W=\int(z)=z+e^{2}is$  analytic and hence find dw/dz=-19

Cez. Verify me analytic for  $f(z) = \log z$  , honce find its demante.

(9h. if \( (2) is analysic / show that \[ (\frac{1}{3}/3x^2) + (\frac{1}{3}/3y^2) \] \[ \frac{1}{3}(2) \]^2 = \( \frac{1}{3}(2) \]^2

15  $u = e^{2x} (x \cos 2y - y \sin 2y)$  (25)

66. That the cenalytic function, f(2) = u+iv,

if (u-v) = ex[cosy-sny] - (27)

Q7. Show that un unalighed function with compact modulus is constant. —16