no Kles  $\int |\psi(b)|^{2} dx = 1 = A \int \frac{1}{(x^{2} + a^{2})^{2}}$ 2 At | U = \frac{1}{2} \delta \delta \left \left \left \delta \left \lef = \frac{A^2}{2\times(\chi^2+\chi^2)} \right| \frac{1}{2} \left| \frac{A^2}{2\times(\chi^2+\chi^2)} \right|^2 \left| \frac{A^2}{2\times(\chi^2+\chi^2)} \right|^2 \left| \frac{1}{2} \left| \frac{A^2}{2\times(\chi^2+\chi^2)} \right|^2 \left| \frac{1}{2} \left| \f 2 A X / 40 + A arcte (t) / 40 3  $=\frac{A^2}{2a^3} = 1 = A = \begin{bmatrix} 2a^3 \\ \frac{1}{b} \end{bmatrix} = \begin{bmatrix} a\sqrt{2}a \\ \frac{1}{b} \end{bmatrix}$ 

P(x)= B +iB  $\int \frac{\beta}{\lambda + i\beta} dx = \int \frac{\beta(b - i\beta)}{x^2 + b^2} dx$ (114) 2 B(X+iB) B(X-iB) 2 B(X+B)
branet (x2+B2) (X2+B2) B2 / d1 2 B' archy & /2 2 = B J Z 1 Z > B = TE = 8 2  $\langle \Psi | \Psi \rangle = \int_{\mathbb{R}^{2}} \Psi dx = \int_{\mathbb{R}^{2}} \frac{|B|}{|x|^{2} + \alpha} \frac{|A|}{|x|^{2} + \alpha} dx$ (x-ip) (x-iu) (x+ia)

4(x)= 2 Sin Ax [x e [0; g] file) = file in the dreat a) (fildi>=0 did e a e a d d 2 did 2 = (- a ) = 2 i n + a

8) di, de -?  $2\int_{1}^{2} \left| \frac{i\pi^{2}}{a} - \frac{i\pi^{2}}{a} \right| dt = \int_{1}^{2} \left| \frac{dt}{dt} \right| dt = \int_{1}^{2}$ L2 AMARIN Chrimerpura 6) 145 = a 1 f1> + C2/82> = const | e it sint dt 2 Cost d(- wst) = if sint db/2 Const ( cost 10 -i 1 - 808 L+ d),

2 const (1 shia - 1 sinit) |9 2. To ( sin2a + (sin2a + g)) 1 - 1 ht Sin The de 2 2 di Ja Jasta Sin ( Sin to Sin  $= \sqrt{\frac{2}{a}} \int_{0}^{2} \frac{1}{a} \left( \frac{a' \sin \frac{a}{a}}{a} \right)^{\frac{1}{a}} = \sqrt{\frac{2a'}{a}} \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{2a'}{a} \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{2a'}{a} \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{1}a \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{1}{a} \int_{0}^{2a} \frac{1}{a} \int_{0$ (2 i lasin 2 m / 4)/

2 f2 (4) = ANA ROLLIERO, KARA < A Paga (1452 - i 141> + i 142)