15.05 13 Ca 4 5 Theo- u Nr. 3  $V(x) = V_o(\delta(x+a) + \delta(x-a)$ Vo < a, a>0 => \(\frac{4}{2}\) = \(\frac{4}{2}\) \(\frac{4}\) \(\frac{4}{2}\) \(\frac{4}{2 x =-a  $-a \leq x \leq a$  $x \ge a$ a) Normier Sarkeit: A = 0 5) Stering Seix = ±a  $x = -a = 0 \quad 0 = A \quad \frac{1}{1 + e^{2ka}}$ c) 2.2 e-3ku = + (1+ 2k) u = 2mk Stationare SGL: - t2 2 1/2 + + + (x) 4/4 = E 4/4 Juse gration iser x on k= = a-E bis x = = a+E: => A ke-ka- Bke kse + Bke-ka = 2-16 (+ Ae-ka => e-2ka = + (1+2k)  $0_{y=e^{-2ka}}$ y2 = 1 + 26 >> a muss gro/3 genugs sen.

