Analysis IV Uebung 09 Michael Kopp June 21, 2010

( Ana (9) (a)  $f(z) = \frac{1}{2}$  Polst. bet z = 0 mit Run  $f = \lim_{z \to 0} \frac{z e^{izA}}{z} = 1$  [ Upp M S 8(2) de es Estation de la Sun Sun 1 | So f(2) 12 = | So - = 1 = 1 (Reid) A Rigiday | E So ar e - RS-4Ady R-300 0 de 46(0,07 => 14470  $\int_{-\infty}^{\infty} \frac{e^{ith}}{2} dt + \int_{-\infty}^{+\infty} \frac{e^{ith}}{2} dt + \int_{-\infty}^{+\infty} \frac{e^{ith}}{2} dt = 0$ 2+2-2 I I I Tudent'luma

10 + e 12 12 - Fi e = cos 4 + i de p => 50 -i=A i=A dz = +iT 2004 = e +e +e 21 duy = e' - e' \$ 500 su 2 A de - + 1/6 215 the 224 de = TT (b) 100 = 500 - NE + 500 ( ) S-NE & (E0+x)- Elle 1 m(xx) dx -> 0 It'd Levens un R'eman veil I winderloss tillustring took Drini - Beck of illt sind don't 5th to de

(1)

greate < co don't & (60 +x) - fleo' & LI

2 Su(t) = 5 = 7 (+++) 0 (x) 0x Ja On rich = Jo On wide = 1 Firkom Besigheim - Belegungsplan Til [(n-+)++(10++)+] [-2] (So[x(x+t)-f(t+0)] Du(x)dx + So[x(x+t)-f(t-0)] Du(x)dx) Woche vom 22. - 26 März 2010 (=  $\sqrt{xb} (x) \Omega \times \frac{(0+3)^3 - (x+3)^4}{x}$ Jo f(+x)-f(+0) x du[(u+z)+] EL1 ell de | x | ST &- xel-till | Melvillet lineiladh F(xt) & L1 Wonde Lewell for Relieved and Title in -00 verdu ( ) halog 2. Integral

Woche vom 29. März - 2. April 2010

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(i) 
$$f_{\alpha} > 0$$
  $f_{\alpha} = \frac{1}{4} \int_{-\infty}^{+\infty} \frac{1}{4} \int_{-\infty}^{+\infty}$ 

the line def na mit alm wherether, du ah ship

$$f = ah \left( \frac{eh}{e^{-50}} \frac{S}{a} \right) = \frac{1}{a}$$

Wy. Symmetric gill and  $\int_{-60}^{E} -50$