

3 - 2 1-3 1st holomorph auf Agrs (0))·f(3) = 1-3 e 18 => first holomorph out Ao, 1(0) => Plant sich für alle z & Ao, 1 als Lanert-Reiter
dastellerand $f(3) = \sum_{k_1=0}^{+\infty} 3^{k_1} \sum_{k_2=0}^{+\infty} \frac{3^{-k_2}}{3^{-k_2}}$ = \frac{7}{2} \frac{1}{2} \fra = 2 (1 1 1 {\b_2 = \b_1 - n}) 1 {\b_2 = \b_1 - n} $= \sum_{m=-\infty}^{+\infty} \left(\sum_{k_1=m \text{ max}}^{+\infty} (0,m) \left(\frac{\lambda_1-m}{\lambda_1-m} \right) \right)$ $= \frac{1}{2} \left(\frac{1}{k_{1}-m} \right) \left(\frac{1}{k_{1}-$

$$\frac{1}{3} = \frac{1}{3} = \frac{1$$

3) (i)
$$f(z) = \sum_{k=-N}^{N} x_k e^{ikx}$$

Win merken, dass $\frac{1}{2\pi} \left(\int_{0}^{2\pi} f(t) e^{-iRt} dt \right) = \frac{1}{2\pi} \left(\int_{0}^{2\pi} \int_{0}^{2\pi} \frac{dt}{dt} dt \right)$ $\frac{1}{2\pi} \left(\int_{0}^{2\pi} f(t) e^{-iRt} dt \right) = \frac{1}{2\pi} \left(\int_{0}^{2\pi} \frac{dt}{dt} dt \right)$

Falls of reellhousing tunkhion, dann

The state of the st

$$=$$
 \sqrt{b}

=>
$$\beta(z) = \sum_{k=-N}^{-1} x_k e^{ikx} + x_0 + \sum_{k=1}^{N} x_k e^{ikx}$$

$$= \sum_{k=1}^{N} x_k e^{-ik\pi} + x_0 + \sum_{k=1}^{N} x_k e^{ik\pi}$$

=) { X & R und X & = Th

· Falls & FIR and Ste = The, dann sieht man mit(1), dans l'ème reelvertige Function ist (i) Win haben geschen, dat $\frac{1}{2\pi} = \frac{1}{2\pi} \int_{0}^{\pi} f(t) e^{-i\lambda t} dt$ Falls of gerade (charge of vanille) $2\pi = \frac{1}{2\pi} \int_{0}^{2\pi} \int_{0}^{1} |-1|^{2\pi} dt = \int_{0}^{1} \int_{0}^{1} |-1|^{2\pi} dt$ -2T Pl+) e ilt = 1 Th flt) e dt

-2T Penodigitist

Wage ade 82 = - 8-2 (nie den) (nd 380 = 0) Und falls 8 = -8 - k = -8 - k