2.) w∈ C y: La, 6] → C gerdlessen, 155 d w €y (La, 6]) n (7, w):= 27: 5 5-w of 5 ... Umlant zahl van je im w 32: n(y,w)eZ Jands = Sy's) gister ds, da stw fir Stw Rolomorph $g(t) := \int_{a}^{b} \frac{1}{s} \frac{1}{s} ds = g'(s) = \frac{1}{s} \frac{1}{s} \frac{1}{s} \frac{1}{s}$ off exp (-g(+))(p(+)-w) = exp(-g(+)). (-g(+))(p(+)-w) + exp(-g(+)) p'(+) =exp(-g(+)) = (g(+)+w) +exp(-g(+)) g'(+) = exp (-g (+)) gr ((+) - exp (-g (+)) gr ((+) = 0 => 3 c ++ e c : exp (-g (+)) (y (+) - w) = C (=> y (+) - w) = C · exp (g (+)) $C \cdot \exp(g(a)) = y(a) - w = y(b) - w = C \cdot \exp(g(b))$ Da y(a)-w + O (da w &y([a,6])) => C + 0 $C \cdot exp(g(a)) = C \cdot exp(g(b)) \Leftrightarrow exp(g(a)) = exp(g(b))$ (=) $g(a) - g(b) \in 2\pi i \mathbb{Z}$ $g(a) = S \frac{n'(s)}{n'(s) - n'(s)} = 0$ => g(6) = \$ \frac{1}{y(s)} = \ds = \frac{1}{5} = \ds \in 2\frac{1}{3} = \frac{1}{5} = => n(y, w) = 27 i 5 5-w ds EZ