Miniteste 2 R-2022 $\mathcal{G}_{(z)} = g_{\alpha}(x,y) + ixb(x,y)$ f'(20) = your (xo, yo) + i(h(x,y) + xob(xo, yo)) B $(2) + \infty$ $(2+i)^n$ $\lambda = \lim_{n \to \infty} |(2+i)^n|^2 = \lim_{n \to \infty} |2+i|^2 = |2+i|^2$ λ < 1 (=) 1 = + 1 < 6 = R (C) 3 f(z) = 5 (-1) 2 n z n z 2 n + 2 z E C $\frac{\int_{-21}^{21}}{21!} = (-1)^{10} = \frac{1}{20!} = \frac{1}{$ 9 f(z) = 1 27(2+1), ZED=1ZEC: OC(Z)C1/2 = 1 1 = 1 \\ \frac{1}{2} = 1 \\ (3) $f_{+}(z) = \frac{1}{(1-z)^{2}(z+1)} \rightarrow g(z)$ $g(z) = e^{-tz}, p(1) = e^{-t}$ $(1-z)^{2}(z+1) \rightarrow g(z)$ $g(z) = (1-z)^{2}, g(1) = 0$ Res $f(z) = \lim_{z \to 1} \left[\frac{1}{2} \left(\frac{z+1}{z+1} \right) \right] = \frac{1}{2} \left[\frac{z+1}{z+1} \right] = \frac{1}{2} \left$ = lim -te-+3 (3+1) - e+3 -te+2-e+ = -1 e-+ (2++1) B)
(3+1)2 4