

④ $\{z_n\}, \{w_n\} \quad z_n \neq 0 \quad \{z_n\} \rightarrow 1 \quad (\text{Relación 5})$

$$\{w_n(z_{n-1})\} \rightarrow \lambda \in \mathbb{C} \Rightarrow \{z_n^{w_n}\} \rightarrow e^\lambda$$

$$z_n^{w_n} = e^{w_n \log(z_n)} = e^{\underbrace{w_n(z_{n-1})}_{\text{h.p.} \downarrow \lambda} \underbrace{\frac{\log(z_n)}{z_n - 1}}_{\substack{\rightarrow 1 \\ \log \text{ deriv. en } 1 \text{ y} \\ \text{h derivada} \\ \text{vale } 1}}} \rightarrow e^\lambda //$$

$$\lim_{z \rightarrow 1} \frac{\log(z) - \log(1)}{z - 1} = \log(z)' \Big|_{z=1} = 1$$
