$f, g \in H(\mathbb{C})$ $\quad |f(z)| \leq |g(z)| \quad \forall_{z \in \mathbb{C}}$

Zał. $g \neq 0$.

Niech $h(z) = \frac{f(z)}{g(z)}$

$$\lim_{z \to a} \underbrace{(z-a)}_{0} \cdot \underbrace{\frac{f(z)}{g(z)}}_{<\infty} = 0 \Rightarrow$$ wszystkie osobliwości h(z) pozorne

$|\cdot| \leq 1$

$$|h(z)| = \frac{|f(z)|}{|g(z)|} \leq 1. \quad \Rightarrow \text{tw. Liouville'a:}$$

$$h = \text{const.} \Rightarrow \frac{f(z)}{g(z)} = \text{const.} \Rightarrow f(z) = \alpha \cdot g(z)$$

$\alpha \in \mathbb{C}, |\alpha| \leq 1$