

Séries entières

$$\begin{aligned} \rightarrow \text{Rayon de CV: } R &= \sup \{ r > 0 \mid (a_n r^n)_n \text{ est bornée} \} \\ &= \sup \{ |z| \mid \sum a_n z^n \text{ est ACV} \} \end{aligned}$$

$$\begin{aligned} \rightarrow a_n = O(b_n) &\Rightarrow R_a \geq R_b \\ |a_n| \sim |b_n| &\Rightarrow R_a = R_b \end{aligned} \quad \triangle: \triangle$$

$$\begin{aligned} \rightarrow \text{d'Alembert: } \left| \frac{a_{n+1}}{a_n} \right| &\rightarrow \rho \in [0, +\infty[\\ \text{le rayon de } \sum a_n z^n: R_a &= \frac{1}{\rho} \end{aligned}$$