

$$\int_1^{+\infty} \frac{1}{u^\alpha} du \quad \begin{array}{l} \alpha \leq 1 \text{ diverge} \\ \alpha > 1 \text{ converge} \end{array}$$

$$\int_1^{+\infty} \frac{(-1)^n}{n^\alpha} du \quad \begin{array}{l} \alpha > 1 \text{ abs convergente} \\ 0 < \alpha \leq 1 \text{ simplesmente convergente (Leibnitz)} \\ \alpha \leq 0 \text{ diverge (Leibnitz ou cond sf div)} \end{array}$$

$$\int_0^{+\infty} e^{\beta u} du \quad \begin{array}{l} \beta > 0 \text{ diverge} \\ \beta < 0 \text{ converge} \end{array}$$

$$\int_0^1 \frac{1}{u^\alpha} du \quad \begin{array}{l} \alpha > 1 \text{ diverge} \\ \alpha < 1 \text{ converge} \end{array}$$

critérios
d'Alembert
de Cauchy

$0 \leq L < 1$ conv absoluta
 $L > 1$ divergência
 $L = 1$ nada se pode concluir