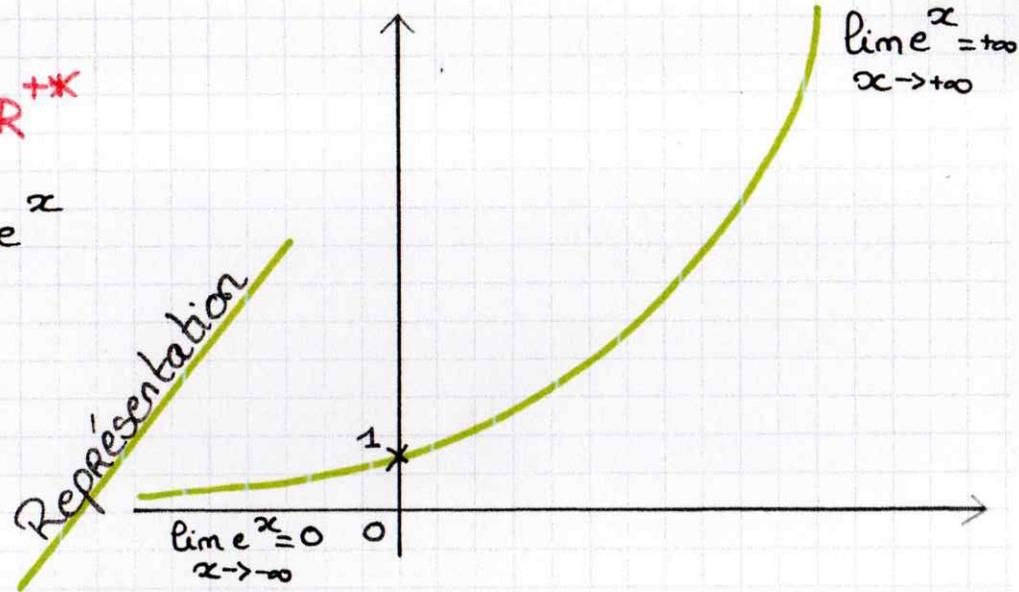
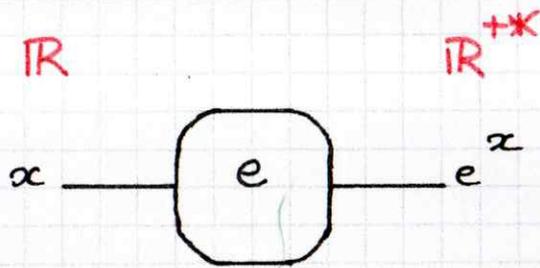


$f: x \mapsto e^{u(x)}$
 $f'(x) = u'(x) \times e^{u(x)}$



$\lim_{x \rightarrow +\infty} \frac{e^x}{x^n} = +\infty$

$\lim_{x \rightarrow -\infty} x^n e^x = 0$

Calculs de limites

Fonction exponentielle



Résoudre une équation / inéquation.

$e^x = e^y \Leftrightarrow x = y$

$e^x \geq e^y \Leftrightarrow x \geq y$

Propriétés

$\forall a, b \in \mathbb{R}$

- $e^a \times e^b = e^{a+b}$
- $\frac{e^a}{e^b} = e^{a-b}$
- $e^{-a} = \frac{1}{e^a}$
- $(e^a)^n = e^{na}$