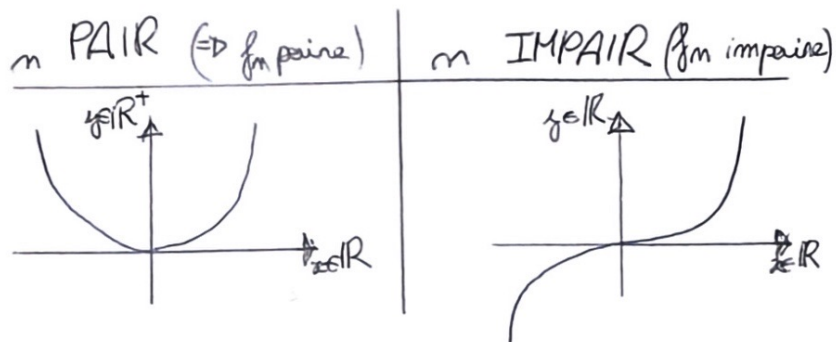


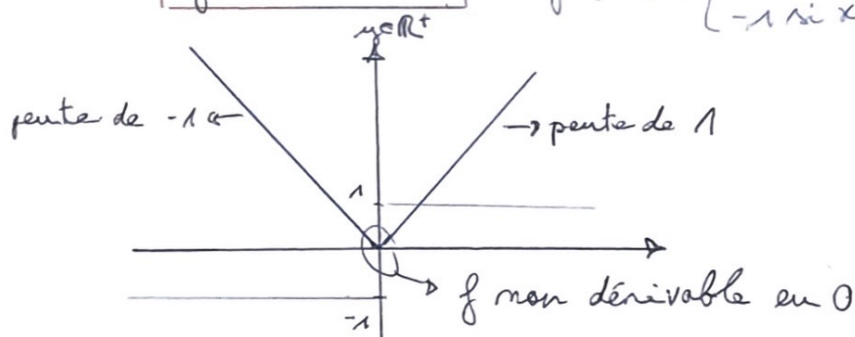
Fonction monome: $f_m: x \mapsto x^m$



Valeur absolue:

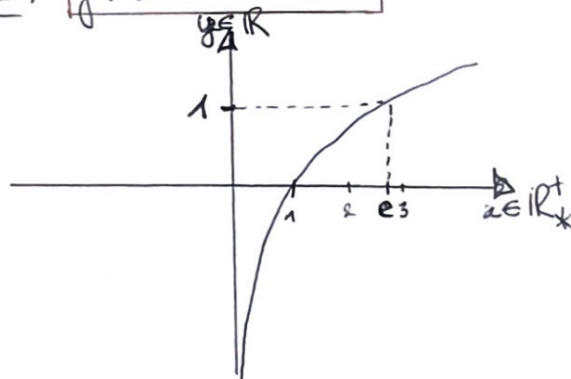
$$f: x \mapsto |x|$$

$$f'(x) = \begin{cases} 1 & \text{si } x > 0 \\ -1 & \text{si } x < 0 \end{cases}$$



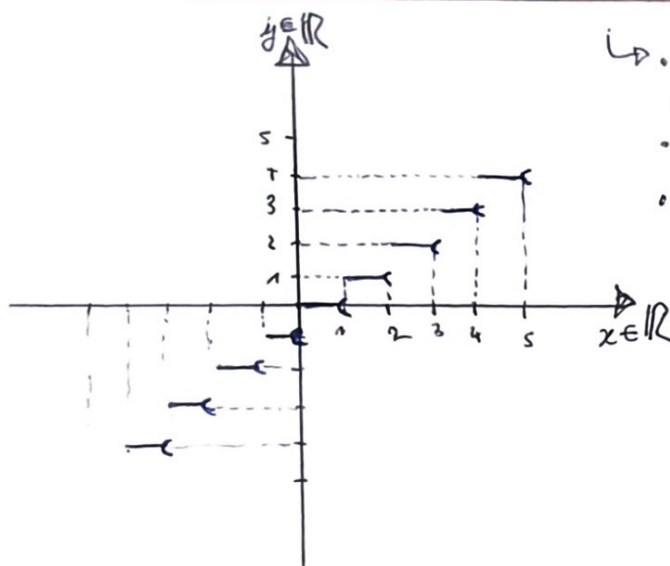
Fonction logarithme:

$$f: x \mapsto \ln(x)$$



Fonction partie entière:

$$\lfloor x \rfloor = m \text{ avec } m \in \mathbb{Z} : m \leq x < m+1$$



$\hookrightarrow$ discontinue donc non dérivable sur $\mathbb{R}$.

• croissante sur $\mathbb{R}$

• $\forall a \in \mathbb{Z}, \lfloor x+a \rfloor = \lfloor x \rfloor + a$