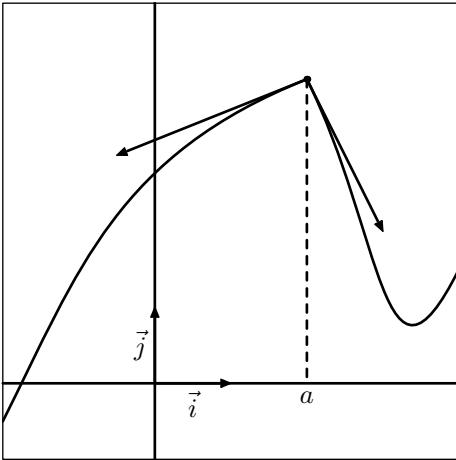


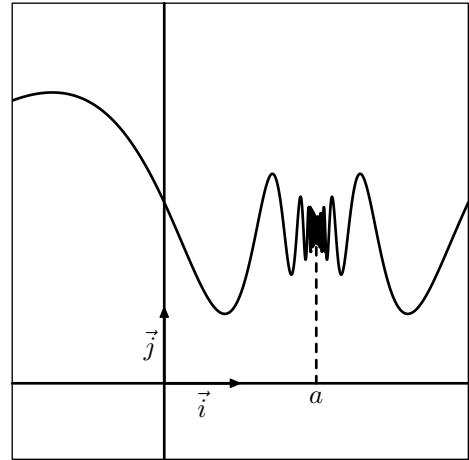
\mathcal{C}_f admet une **tangente verticale** au point d'abscisse a

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} = +\infty \text{ (ou } -\infty)$$



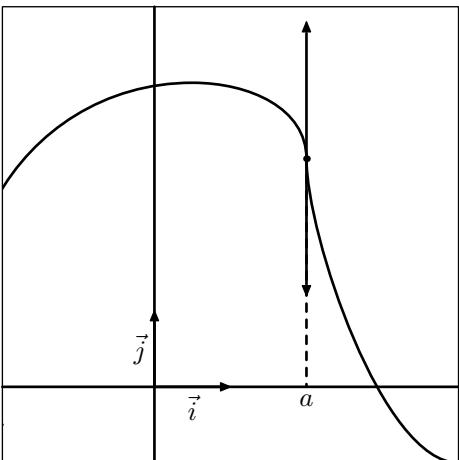
\mathcal{C}_f admet deux **demi-tangentes**

$$\lim_{x \rightarrow a^-} \frac{f(a+h) - f(a)}{h} \neq \lim_{x \rightarrow a^+} \frac{f(a+h) - f(a)}{h}$$



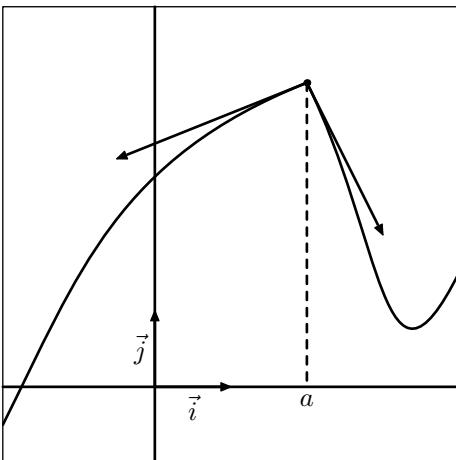
\mathcal{C}_f n'admet aucune tangente

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} \text{ n'existe pas}$$



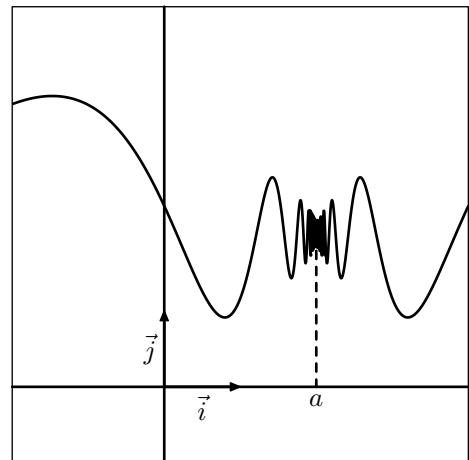
\mathcal{C}_f admet une **tangente verticale** au point d'abscisse a

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} = +\infty \text{ (ou } -\infty)$$



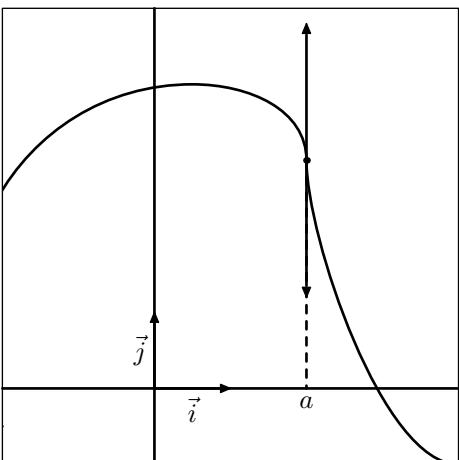
\mathcal{C}_f admet deux **demi-tangentes**

$$\lim_{x \rightarrow a^-} \frac{f(a+h) - f(a)}{h} \neq \lim_{x \rightarrow a^+} \frac{f(a+h) - f(a)}{h}$$



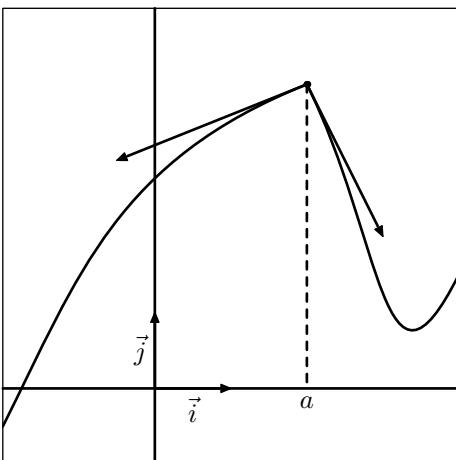
\mathcal{C}_f n'admet aucune tangente

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} \text{ n'existe pas}$$



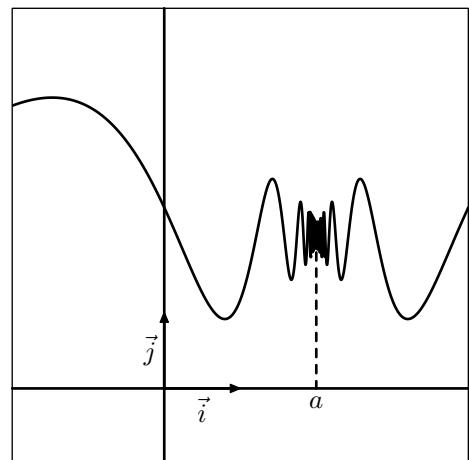
\mathcal{C}_f admet une **tangente verticale** au point d'abscisse a

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} = +\infty \text{ (ou } -\infty)$$



\mathcal{C}_f admet deux **demi-tangentes**

$$\lim_{x \rightarrow a^-} \frac{f(a+h) - f(a)}{h} \neq \lim_{x \rightarrow a^+} \frac{f(a+h) - f(a)}{h}$$



\mathcal{C}_f n'admet aucune tangente

$$\lim_{x \rightarrow a} \frac{f(a+h) - f(a)}{h} \text{ n'existe pas}$$