Ex30 : $f : \mathcal{C}^2$. avec Taylor

$$f(a+h) \underset{h\to 0}{=} f(a) + h f'(a) + \frac{1}{2} h^2 f''(a) + o(h^2)$$

$$F : h \mapsto \frac{f(a+h) - 2f(a) + f(a-h)}{h^2}$$

$$F(h) = \Big(f(a) + h f'(a) + \frac{1}{2} h^2 f''(a) - 2f(a) + f(a) - h f'(a) + \frac{1}{2} h^2 f''(a) + o(h^2) \Big) / h^2$$

$$= f''(a) + o(1)$$

donc $F(h) \underset{h\to 0}{\longrightarrow} f''(a)$.