#2　　$dx = \left[\dfrac{\varepsilon f}{f'''}\right]^{\frac{1}{3}}$

$$f''' = \dfrac{f''(x) - f''(x - dx)}{dx}$$

$$= \dfrac{\dfrac{f'(x+dx) - f'(x)}{dx} - \dfrac{f'(x) - f'(x-dx)}{dx}}{dx}$$

$$= \dfrac{f'(x+dx) + f'(x-dx) - 2f'(x)}{dx^2}$$

$$= \dfrac{\left[\dfrac{f(x+2dx) - f(x+dx)}{dx} + \dfrac{f(x) - f(x-dx)}{dx} - 2\dfrac{\left[f(x+dx) - f(x)\right]}{dx}\right]}{dx^2}$$

$$f''' = \dfrac{f(x+2dx) - 3f(x+dx) + 3f(x) - f(x-dx)}{dx^3}$$