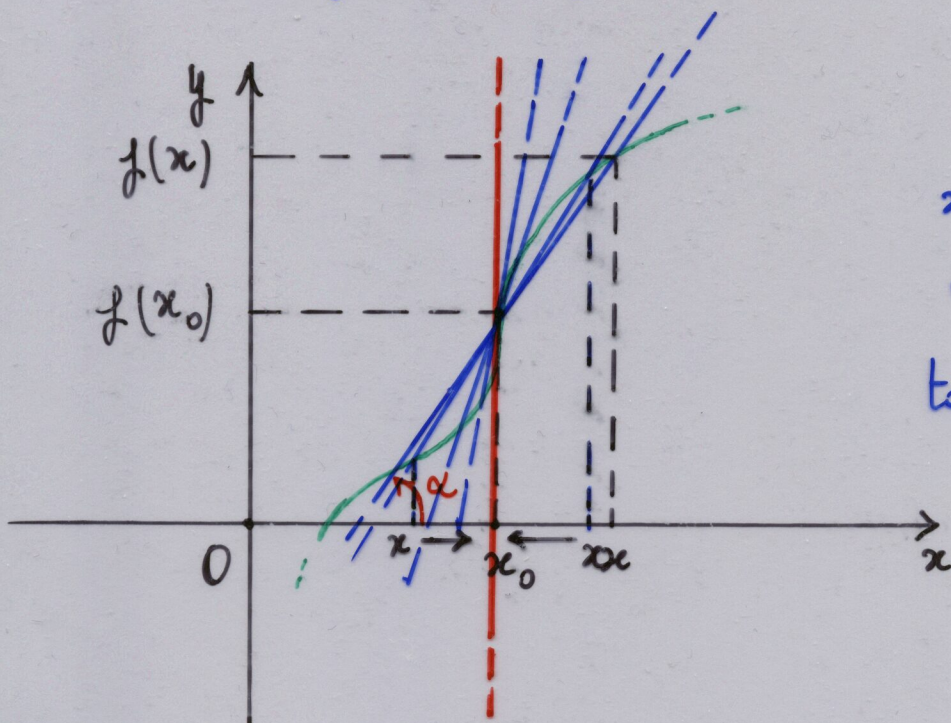


$$f'(x_0) = \lim_{x \rightarrow x_0} \frac{f(x) - f(x_0)}{x - x_0} = +\infty$$

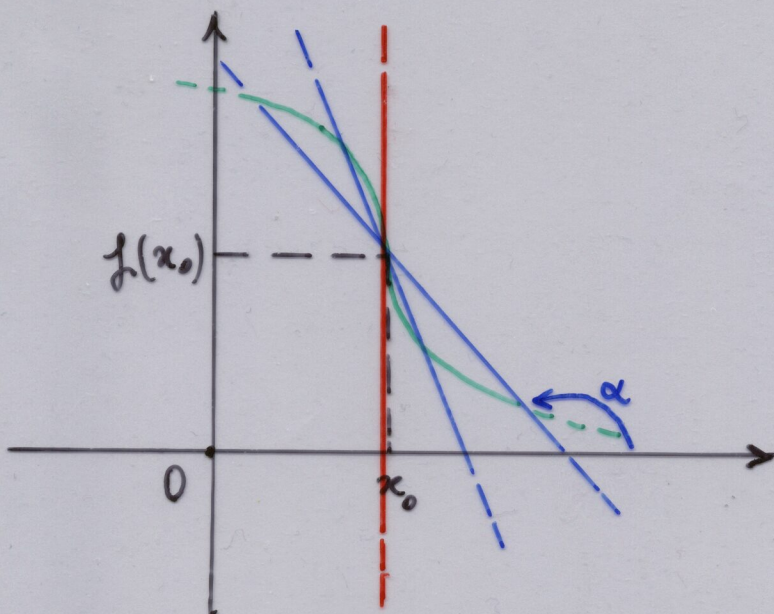


$$x \rightarrow x_0$$

$$\alpha \rightarrow \frac{\pi}{2}^-$$

$$\tan \alpha \rightarrow +\infty$$

$$f'(x_0) = \lim_{x \rightarrow x_0} \frac{f(x) - f(x_0)}{x - x_0} = -\infty$$



$$x \rightarrow x_0$$

$$\alpha \rightarrow \frac{\pi}{2}^+$$

$$\tan \alpha \rightarrow -\infty$$