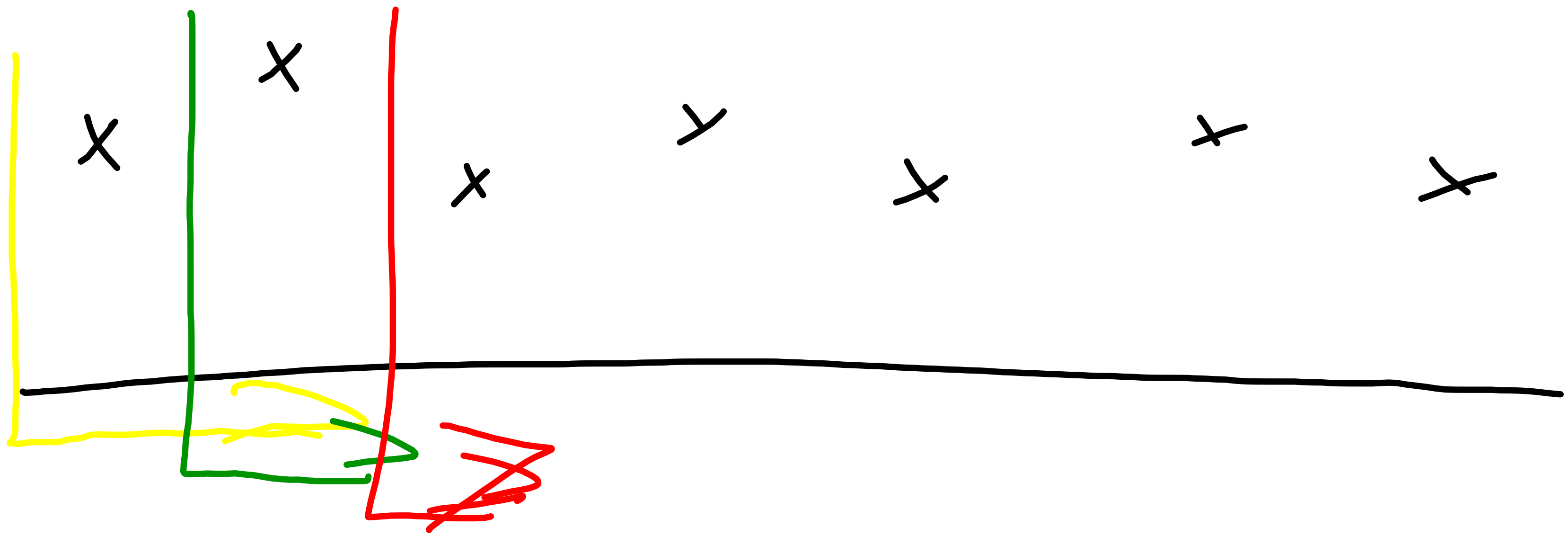
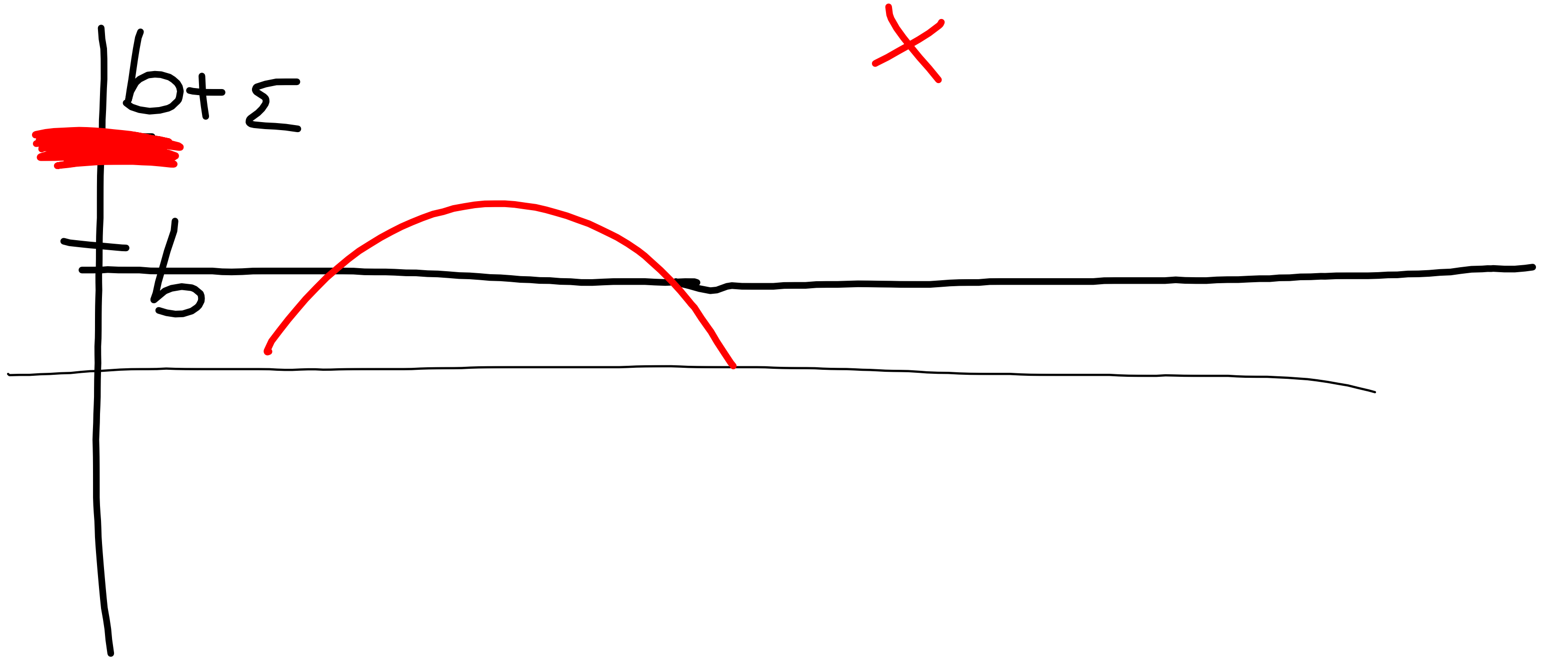



b+ε
b

$$\left(1+\frac{1}{n}\right)^{n} \to e$$

a

b, c

$\cdot\ 1 = \frac{a}{a}$

$+\ 0 = a - a$

$$\frac{1}{n} > 0 \Big|_{n \to \infty}$$

$$\lim_{n \to \infty} \frac{1}{n} = 0$$

$$f(x) > 0 \qquad \Big\| \qquad f(x) \geq \varepsilon > 0$$

$$\frac{1}{n} > 0 \qquad\qquad \frac{1}{n} + \frac{1}{10^{10}} > 0$$

$$\geq \frac{1}{10^{10}} > 0$$

$$\frac{n^4 \cdot \left(3+\frac{1}{n}\right)}{n \cdot \left(-7-\frac{5}{n^2}\right)} = n^3 \cdot \left(-\frac{3}{7}\right)$$

$$\downarrow$$

$$\mathbb{R}$$

$$\lim_{n\to\infty} \frac{n! + \cancel{3^n} - \cancel{4n}}{(n+1)! - \cancel{7n^5}}$$

$$\frac{n!}{(n+1)\cdot n!} = \frac{1}{n+1} \to 0$$

$$\frac{3^n}{n!} \to 0$$

$$\frac{1}{m}\sqrt[5]{m+3}=\sqrt[5]{\frac{1}{m^5}\cdot(m+3)}$$

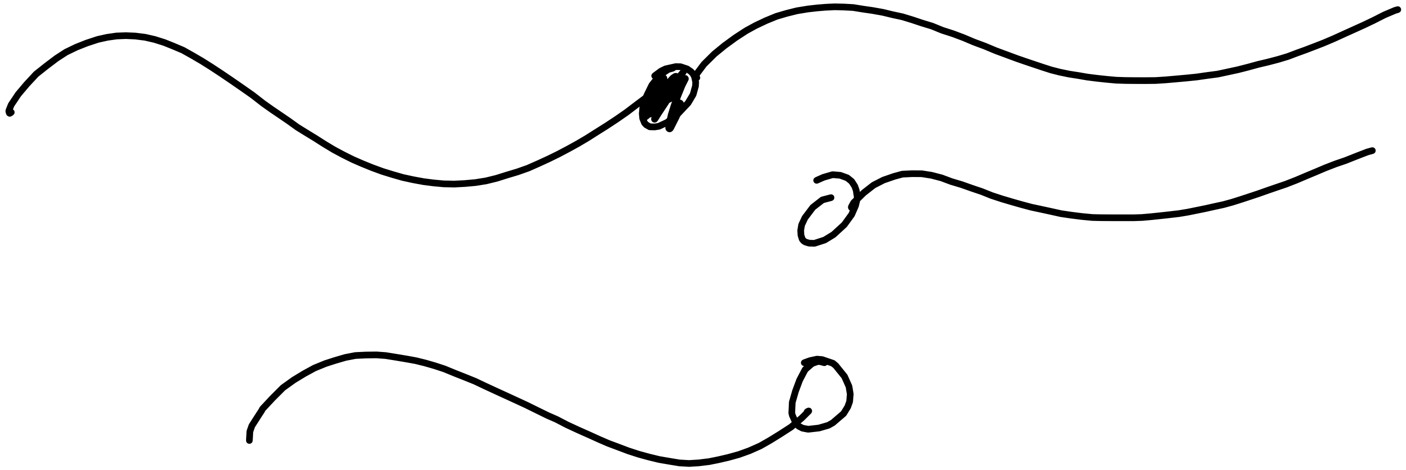
$$\left(m-\sqrt[5]{m^5+m}\right)\cdot\cancel{\frac{a}{a}}=$$

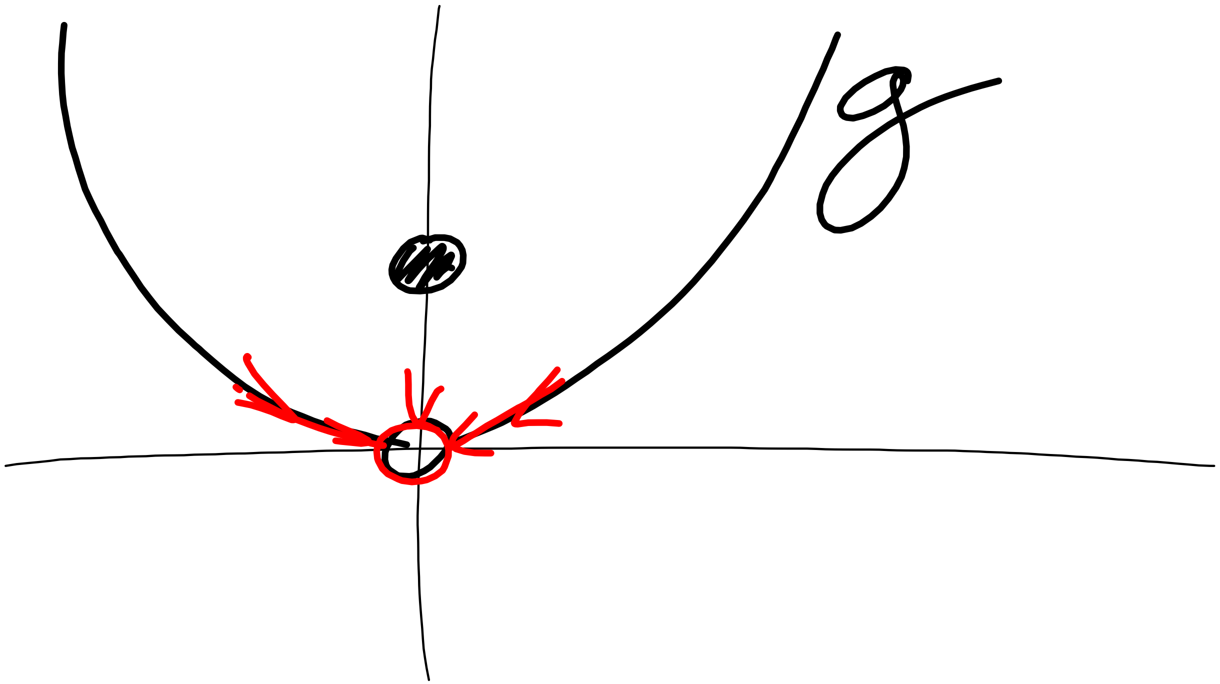
$$\frac{m^5-\left(\sqrt[5]{m^5+m}\right)^5}{\quad}$$

$$a^2 - b^2 = (a-b)\cdot(a+b)$$

$$a^3 - b^3 = (a-b)\cdot(a^2+ab+b^2)$$

$$\vdots$$

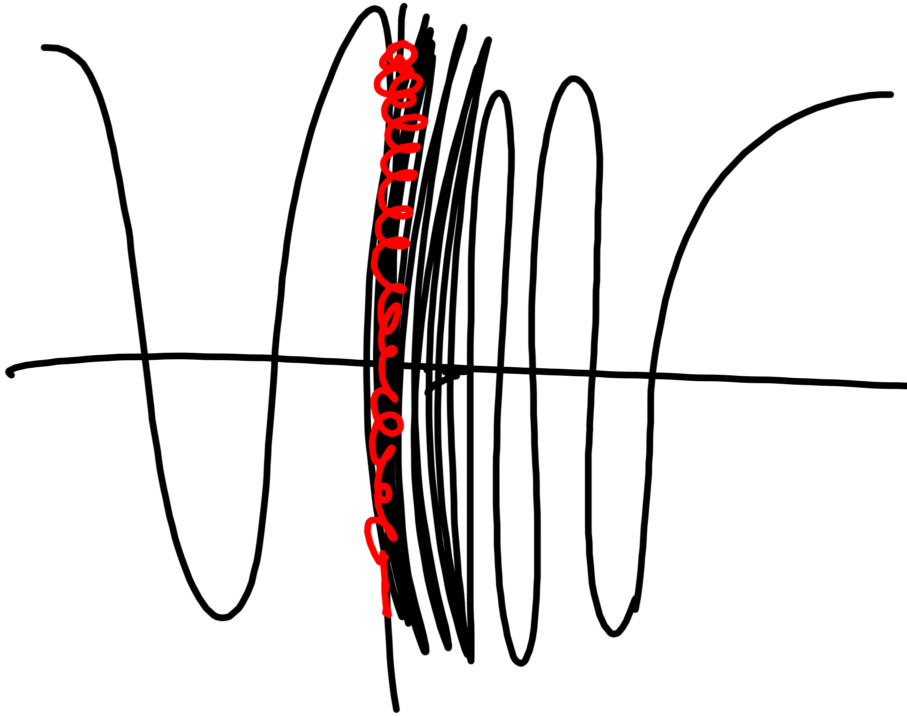



g

$$\lim_{x \to x_0} f(x) = L$$

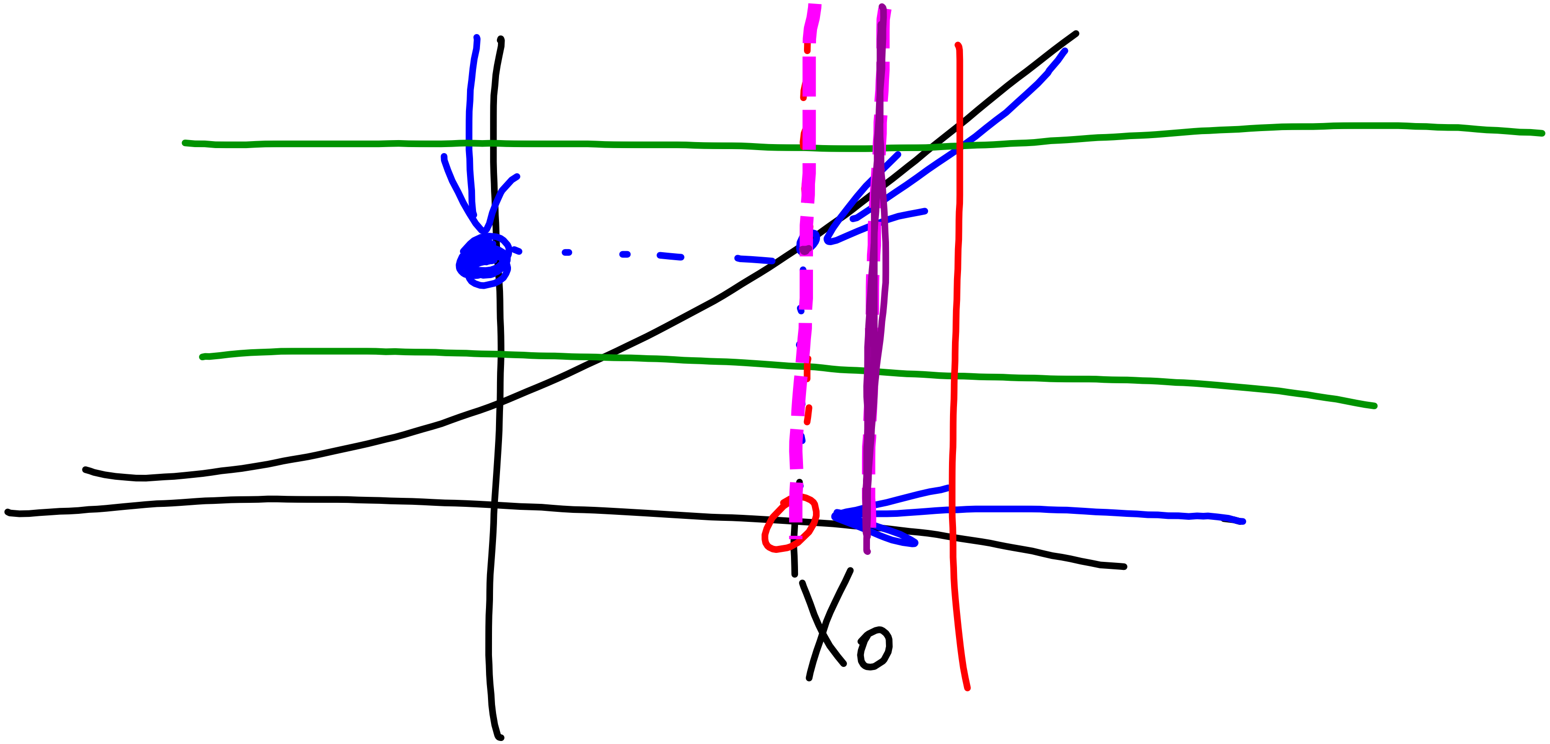
$$\lim_{x \to 0^+} \sin \frac{1}{x} = \sin(\infty) = \times$$

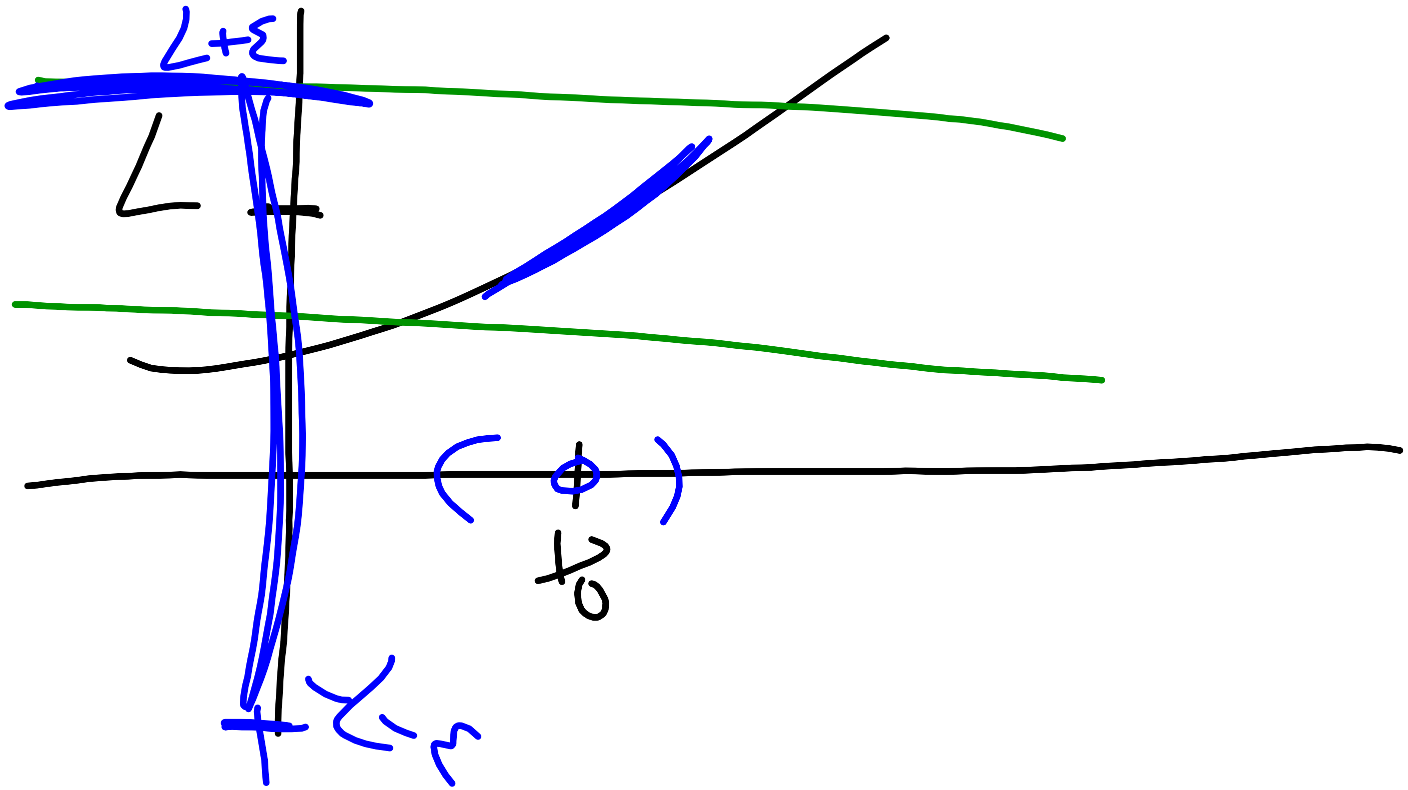
$$\frac{1}{x} = \frac{1}{0^+} = +\infty$$

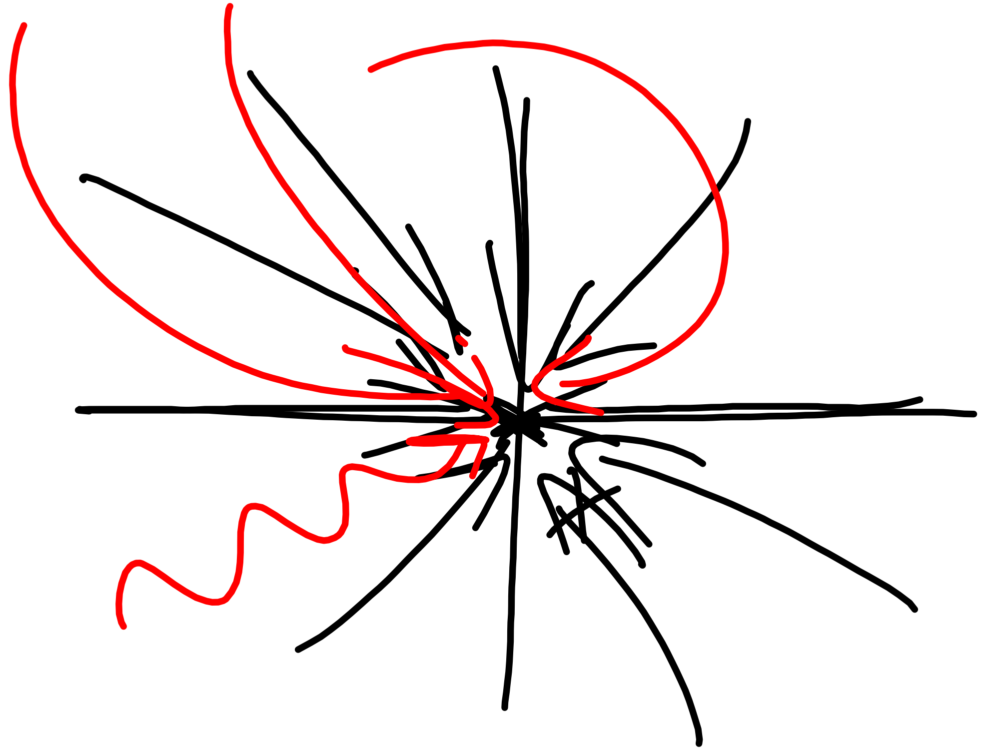


$$\frac{1}{10000000}$$

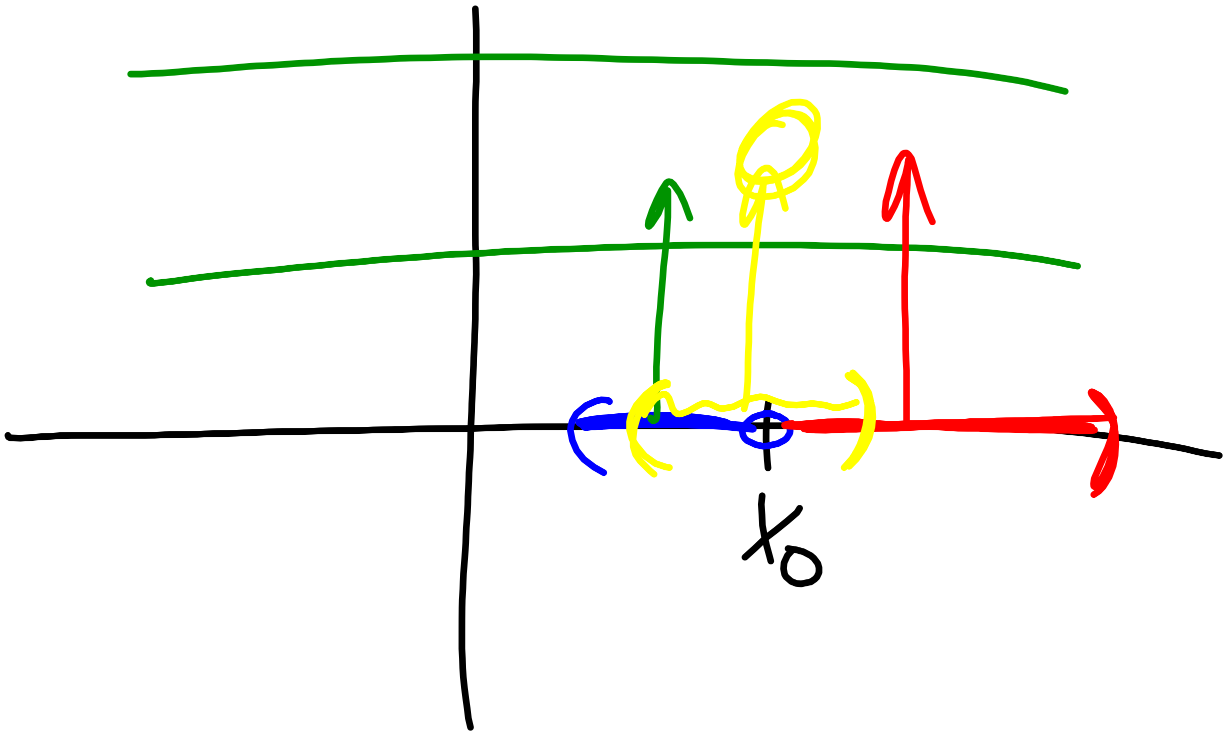
$$\frac{1}{10000000+2\pi}$$


X_0

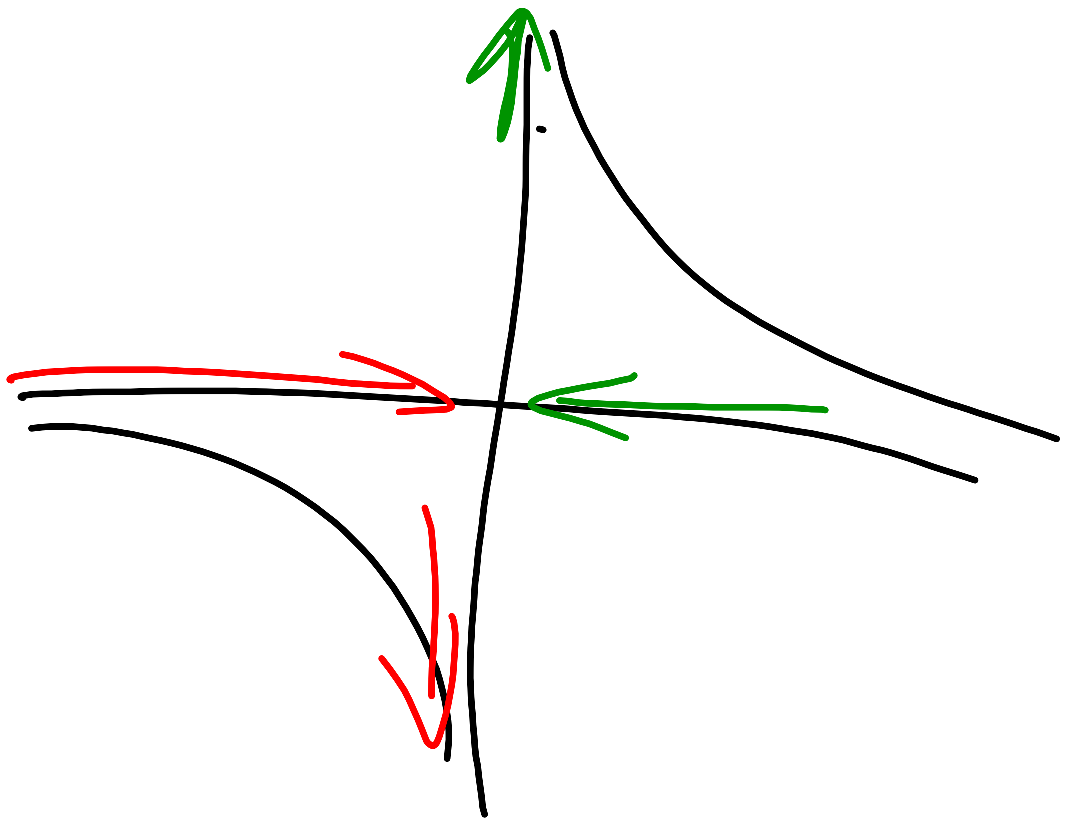

L+ε
L
L−ε
x0



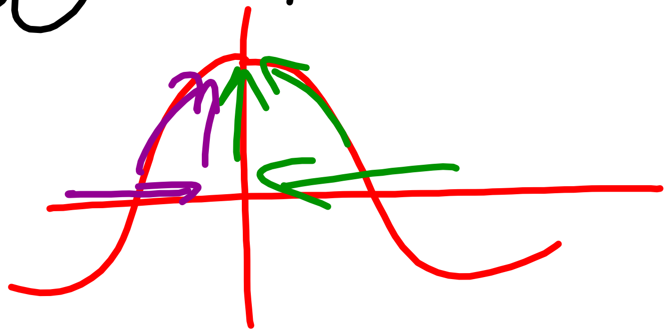
$\mathbb{R}^2$


x_0

$$\lim_{x \to 5} x \cdot \sin\frac{1}{x} = \underline{\underline{5 \cdot \sin\frac{1}{5}}}$$



$$\lim_{x\to 0^{\pm}} \frac{5}{1-\cos x} = \frac{5}{1-\cos 0^{\pm}} = \frac{5}{1-(1^{-})} =$$



$$= \frac{5}{0^{+}} = +\infty$$

$$\left(-1\right)^{-}$$

$$-\left(1^{-}\right)$$