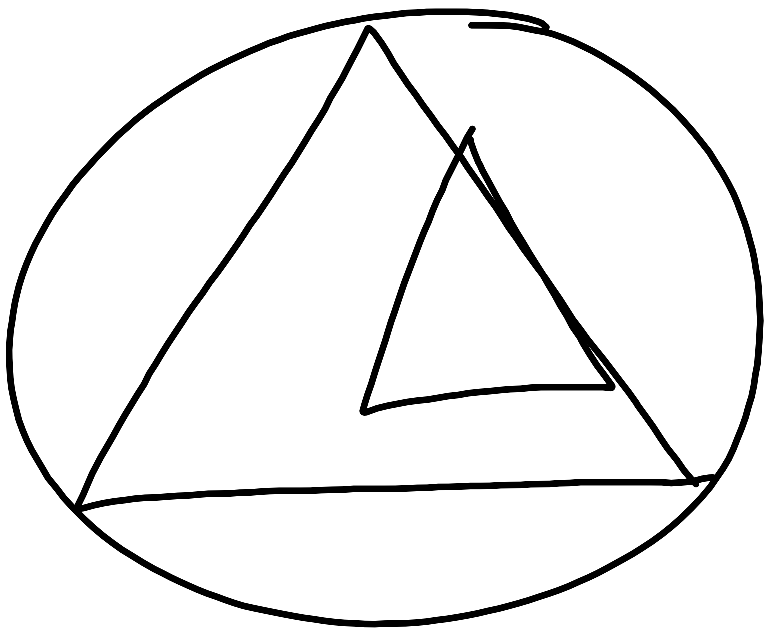
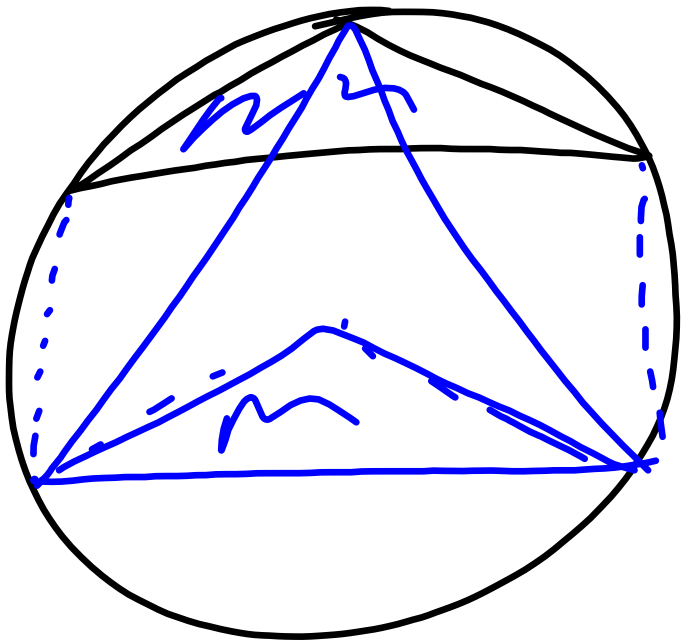
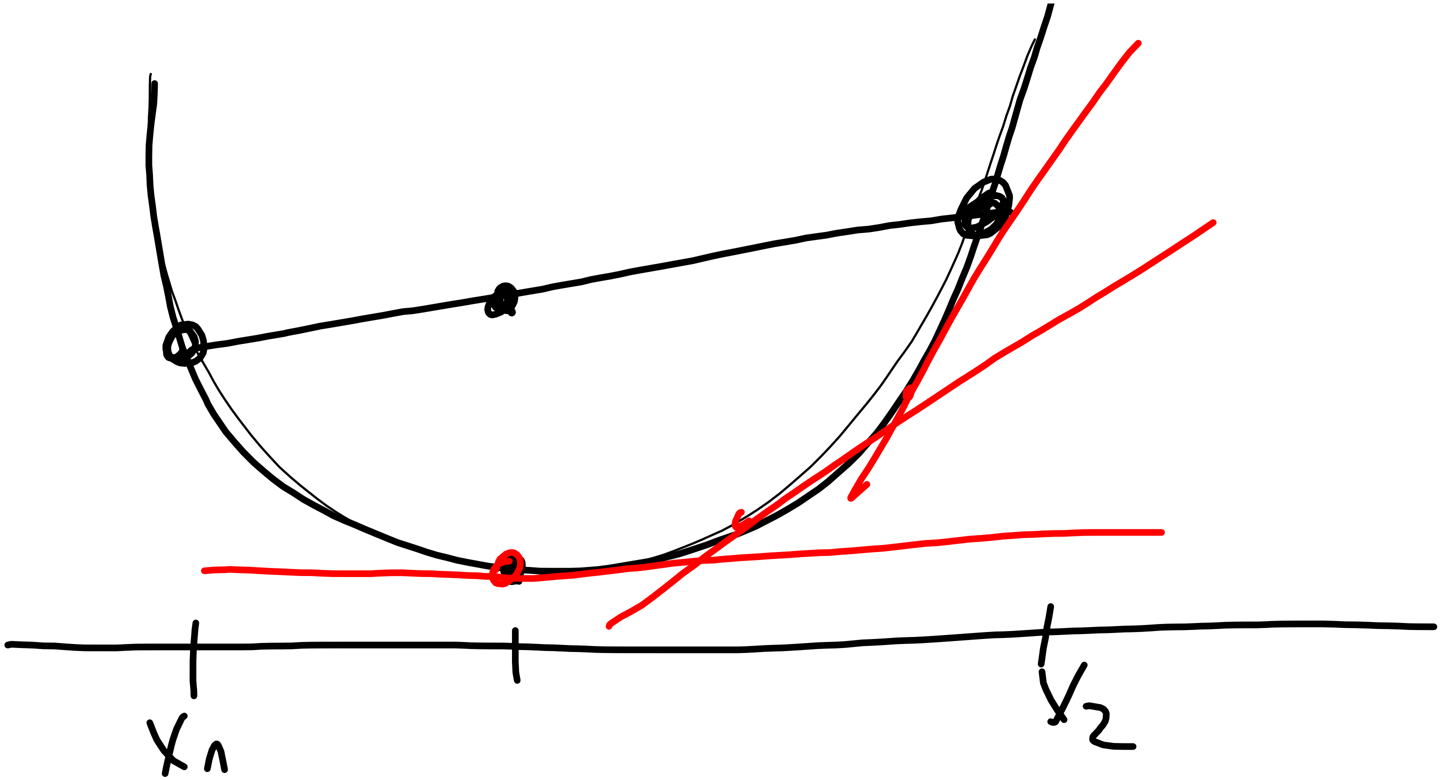
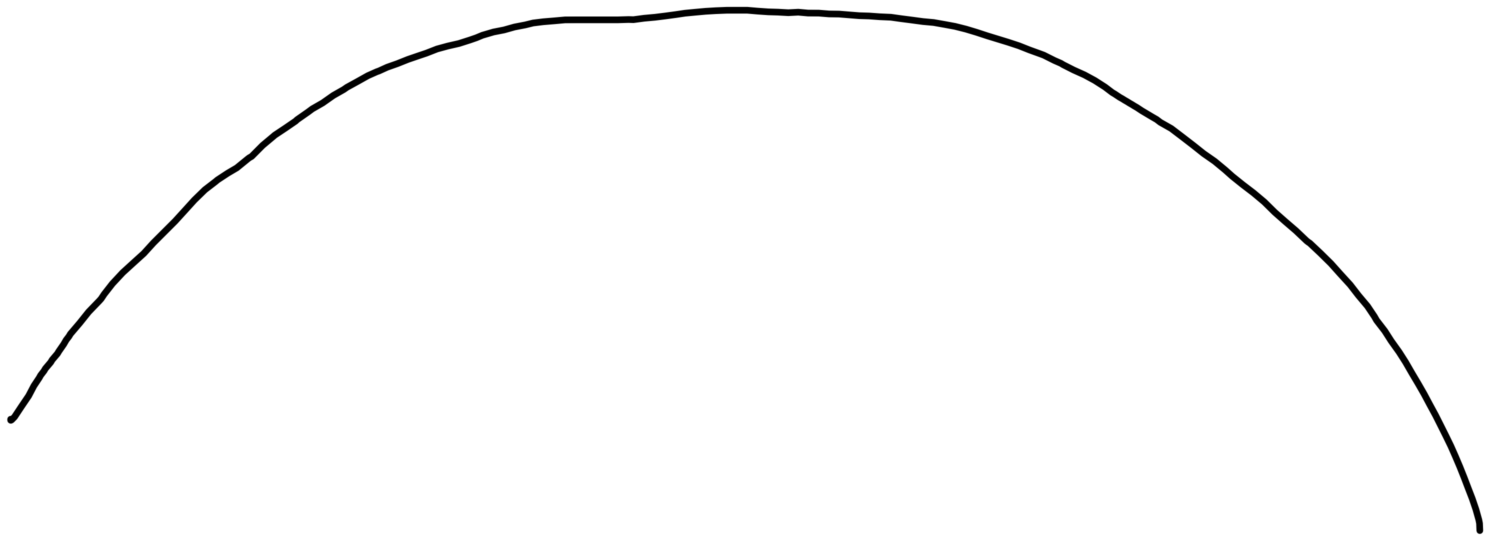
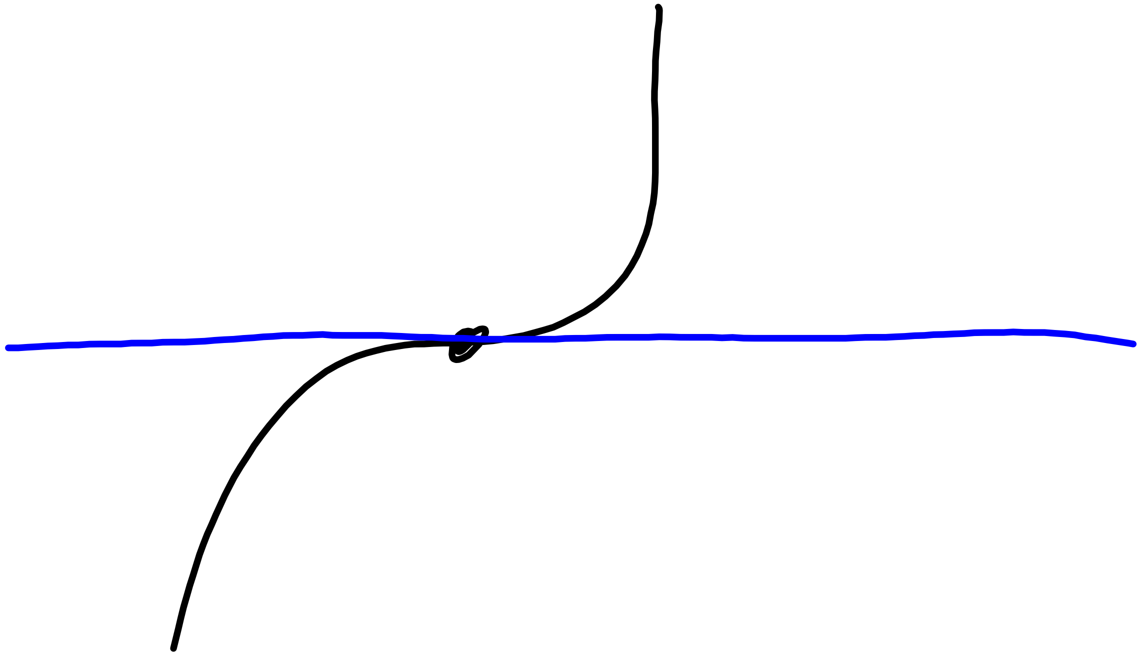


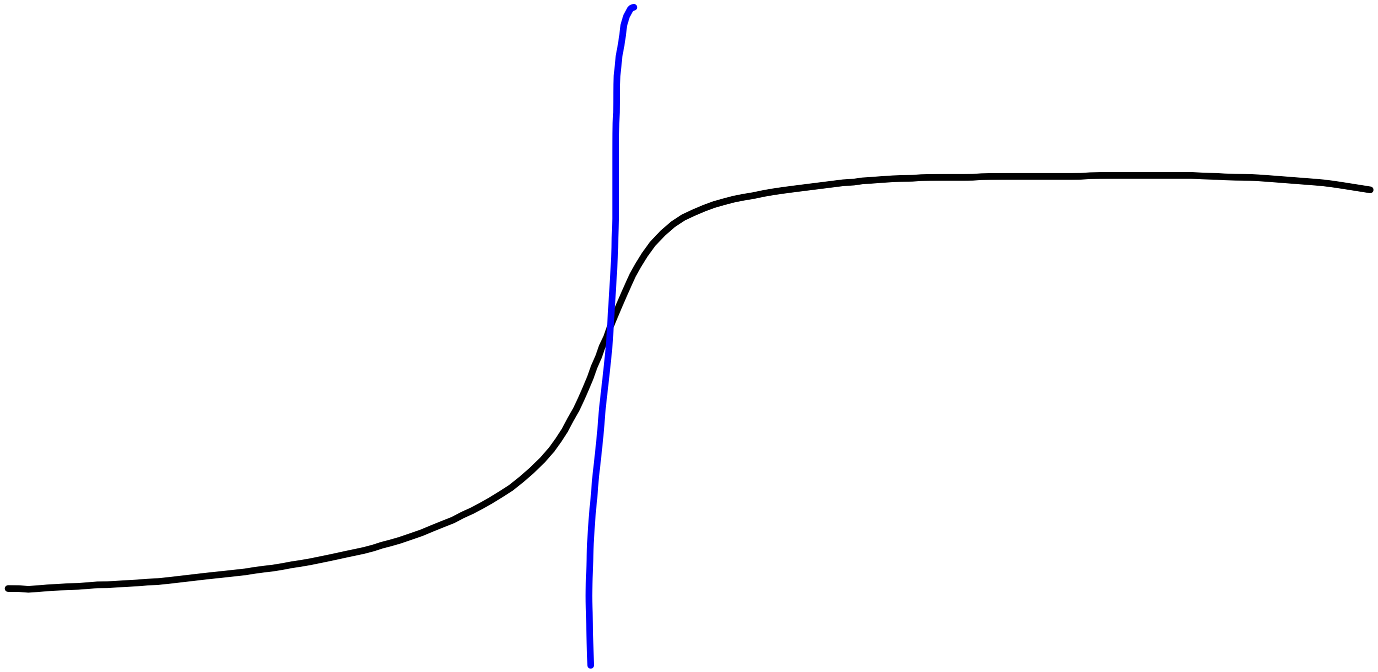


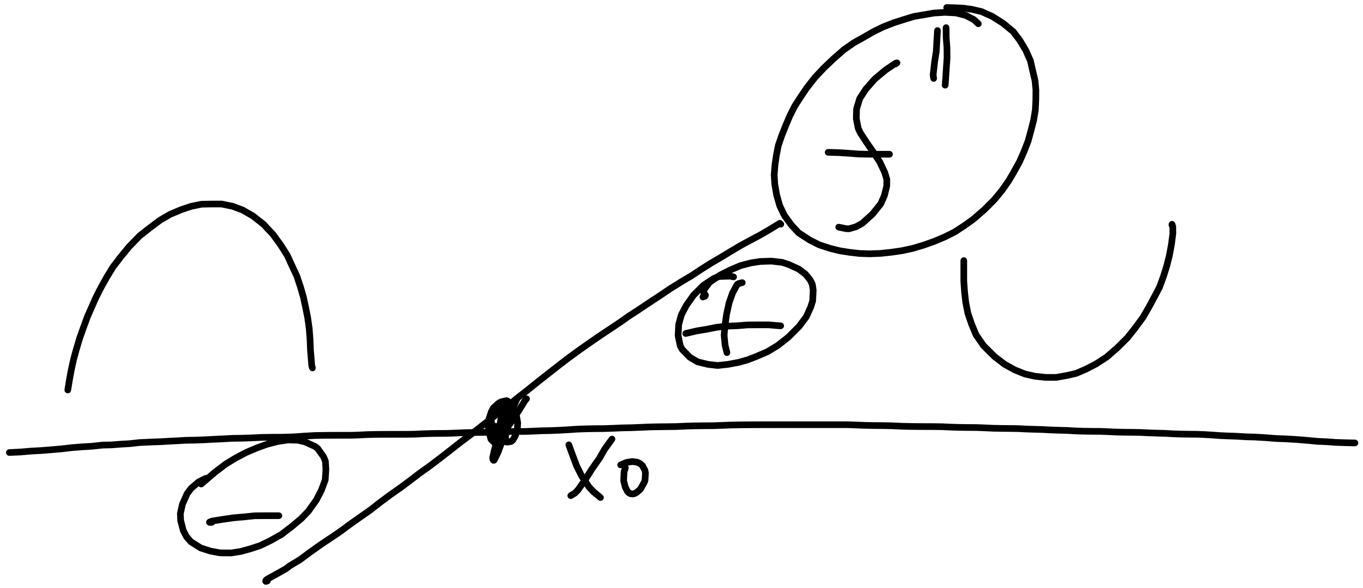


x_1
x_2








x_0

$$\sum_{n=1}^{\infty} \frac{1}{n} = \underbrace{\underbrace{\underbrace{\underbrace{\frac{1}{1}}_{s_1} + \frac{1}{2}}_{s_2} + \frac{1}{3}}_{s_3} + \frac{1}{4}}_{s_4} + \dots$$

$$\sum \frac{1}{n} = \lim_{n \to \infty} s_n = \infty$$

$$\sum_{n=0}^{\infty}(-1)^n = 1-1+1-1+1-1+\dots$$

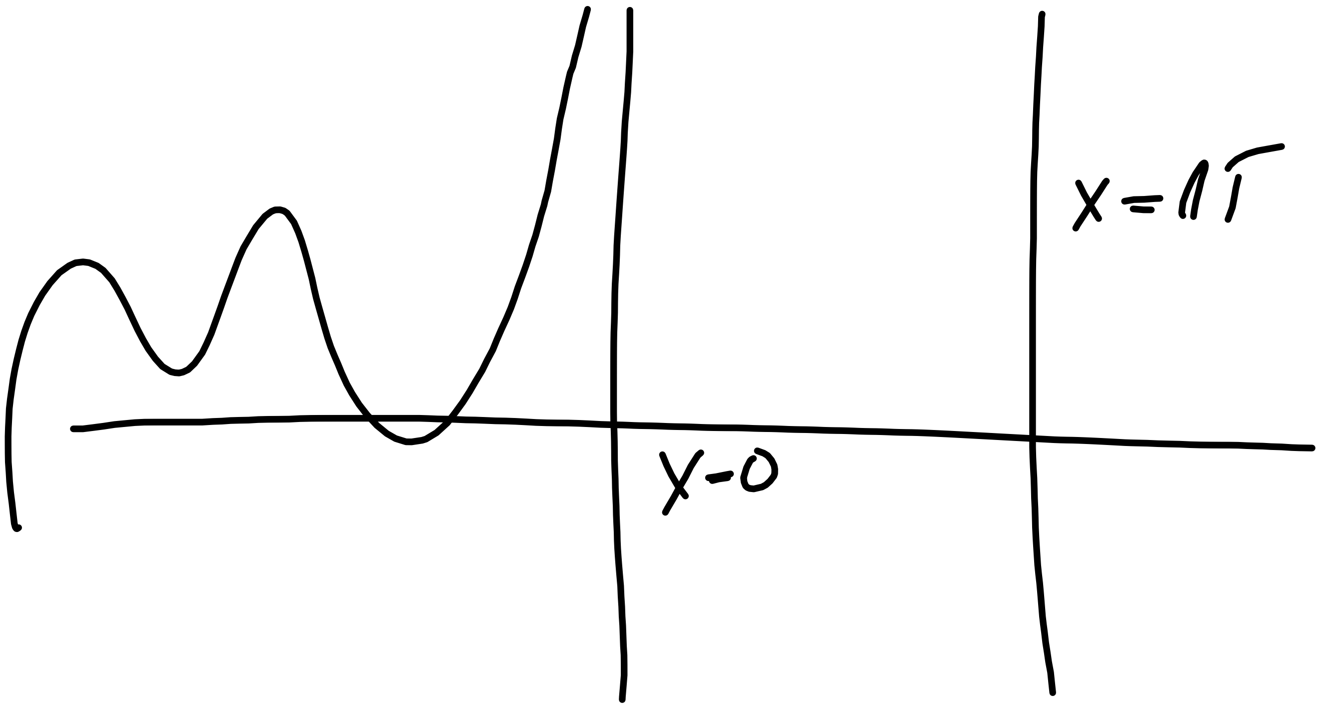
$$1-1+1-1+1-1+\dots$$

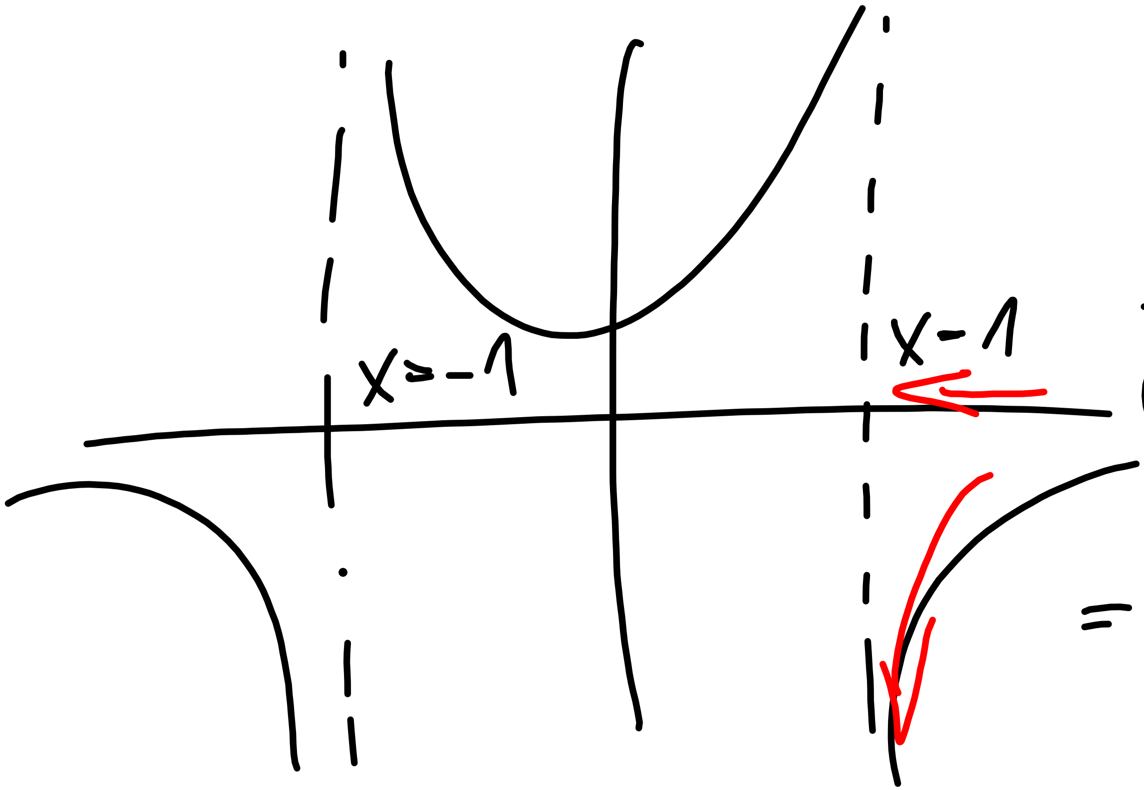
$$1-1+1-1+1-1+\dots$$

$$\overline{1+0+0+0+0+0+0+\dots=1}$$

$$\sum_{n=1}^{\infty} n = 1 + 2 + 3 + 4 + \ldots = -\frac{1}{12}$$

$$\to \infty$$


x=π
x=0



$x \to 1^+$

$$\frac{1}{(1-x)\cdot(1+x)} = \frac{1}{0^-\cdot 2} = -\infty$$

$e^{\frac{1}{x}}$

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

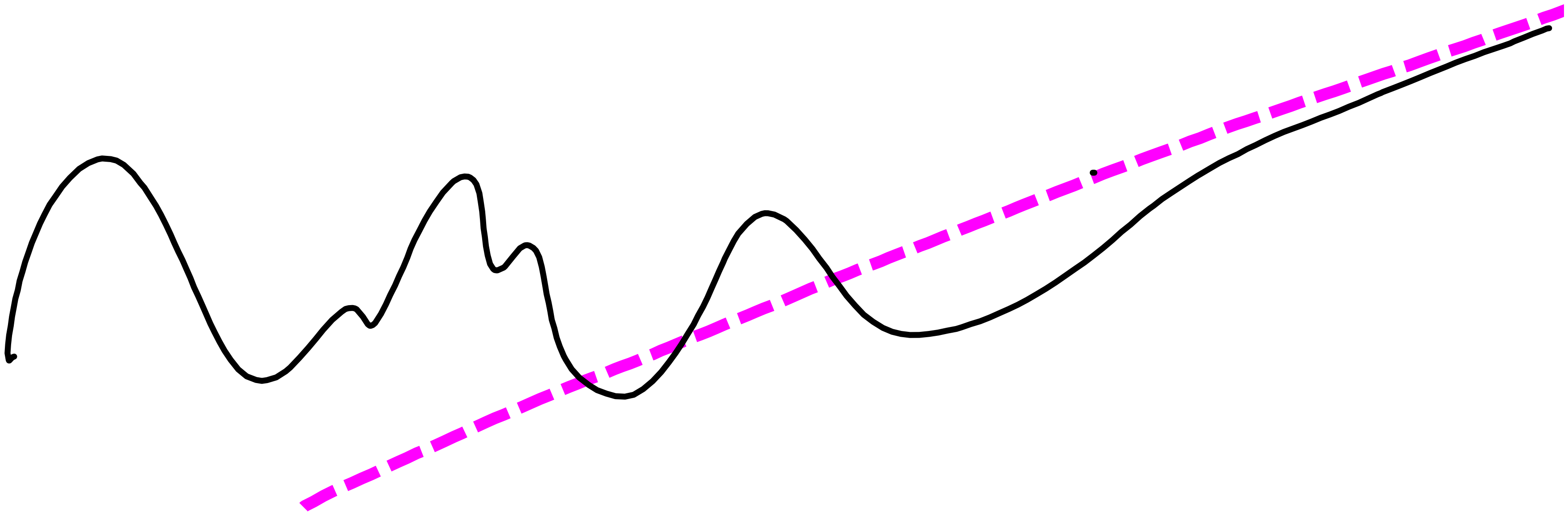
$\boxed{x = 0}$ f

$x \to 0^-$ $\quad e^{\frac{1}{0^-}} = e^{-\infty} = 0$

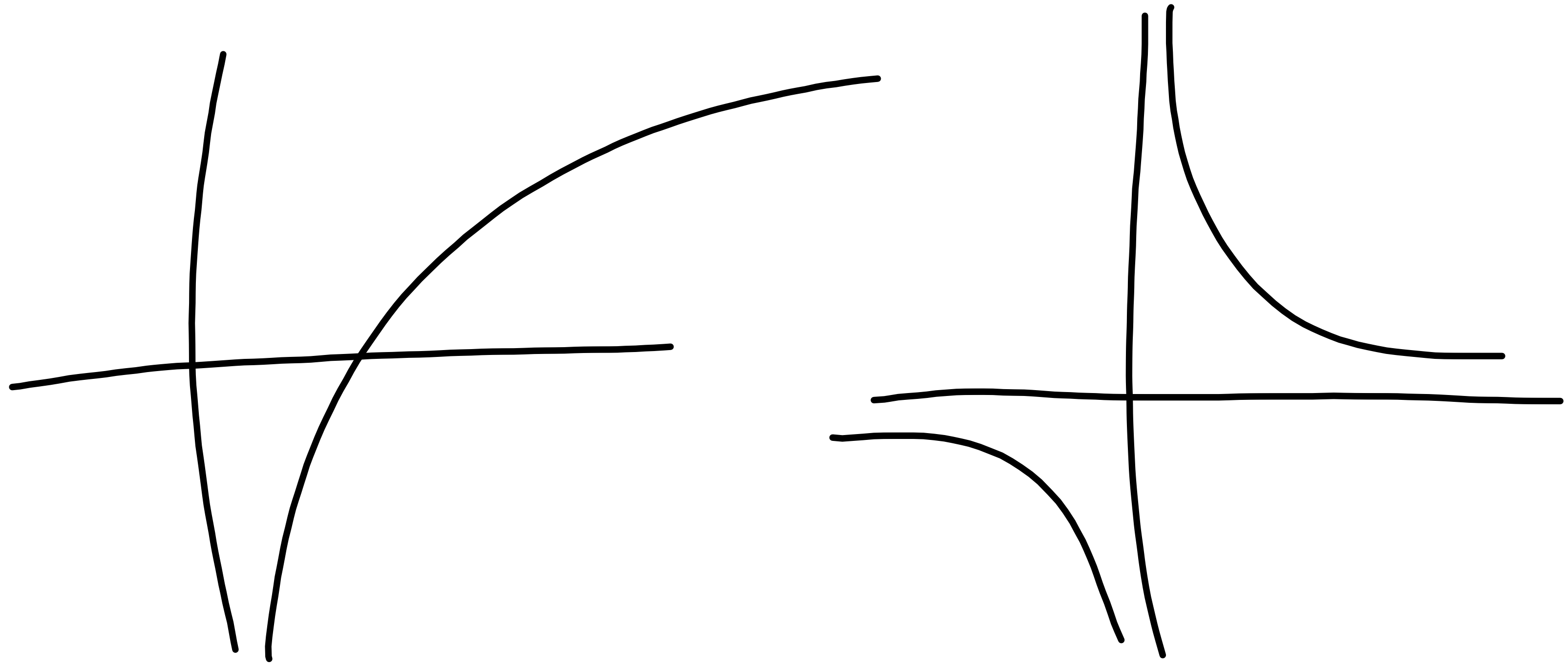
$$y = ax +$$

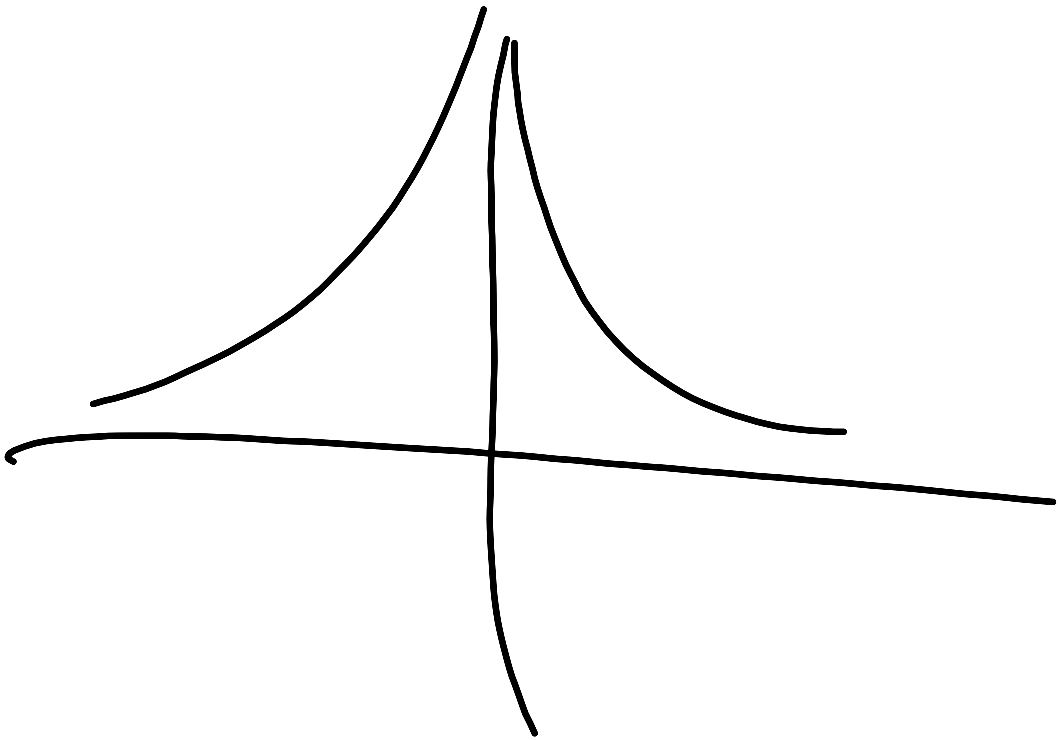
$$f(x)$$

$$a = \frac{y}{x} = \lim_{x \to \infty} \frac{f(x)}{x}$$



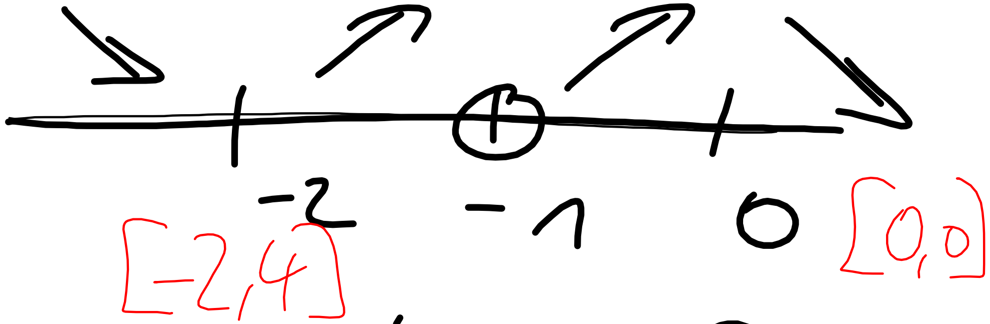
$$b = \underline{\underline{y}} - ax = \lim_{x\to\infty}\left(f(x) - ax\right)$$



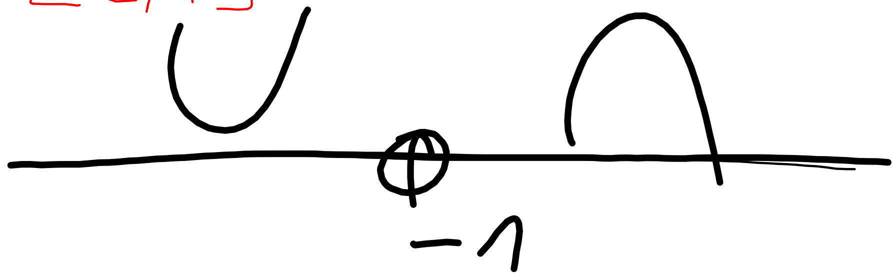


$x=-1^{+}$ |

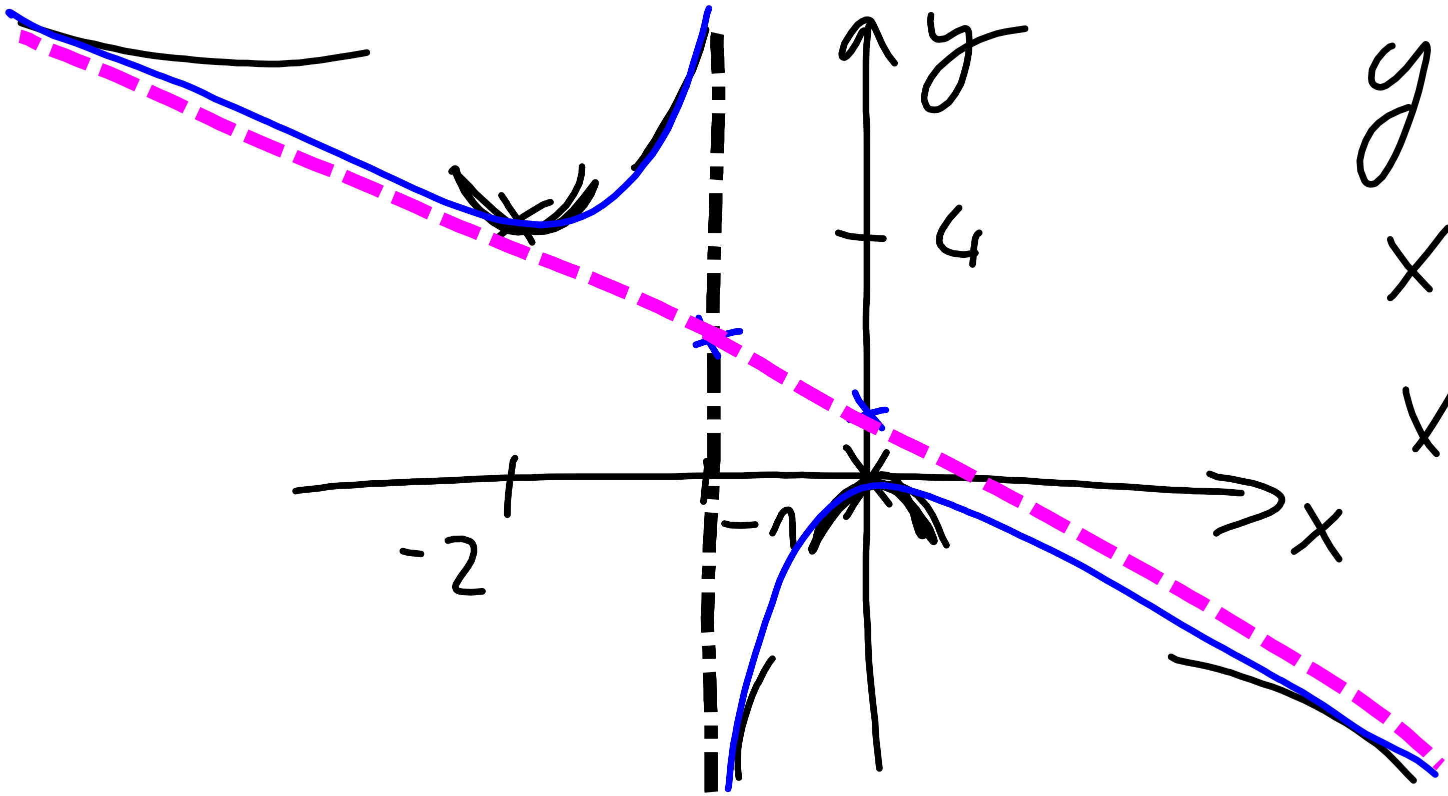
|$-$



v $\pm\infty$: $y=-x+1$



$P=[0,0]$



$y = 1 - x$

$x = 0 \Rightarrow y = 1$

$x = -1 \Rightarrow y = 2$