

$$y = \frac{e^x - e^{-x}}{2} / \cdot 2$$

$$2y = e^x - e^{-x} / \cdot e^{2x}$$

$$2ye^x = e^{2x} - 1$$

$$e^{2x} - 2ye^x - 1 = 0 \quad (t = e^x)$$

$$t^2 - 2yt - 1 = 0$$

⋮

$$\sin x - \sin y = 2 \cdot \cos \frac{x+y}{2} \cdot \sin \frac{x-y}{2}$$

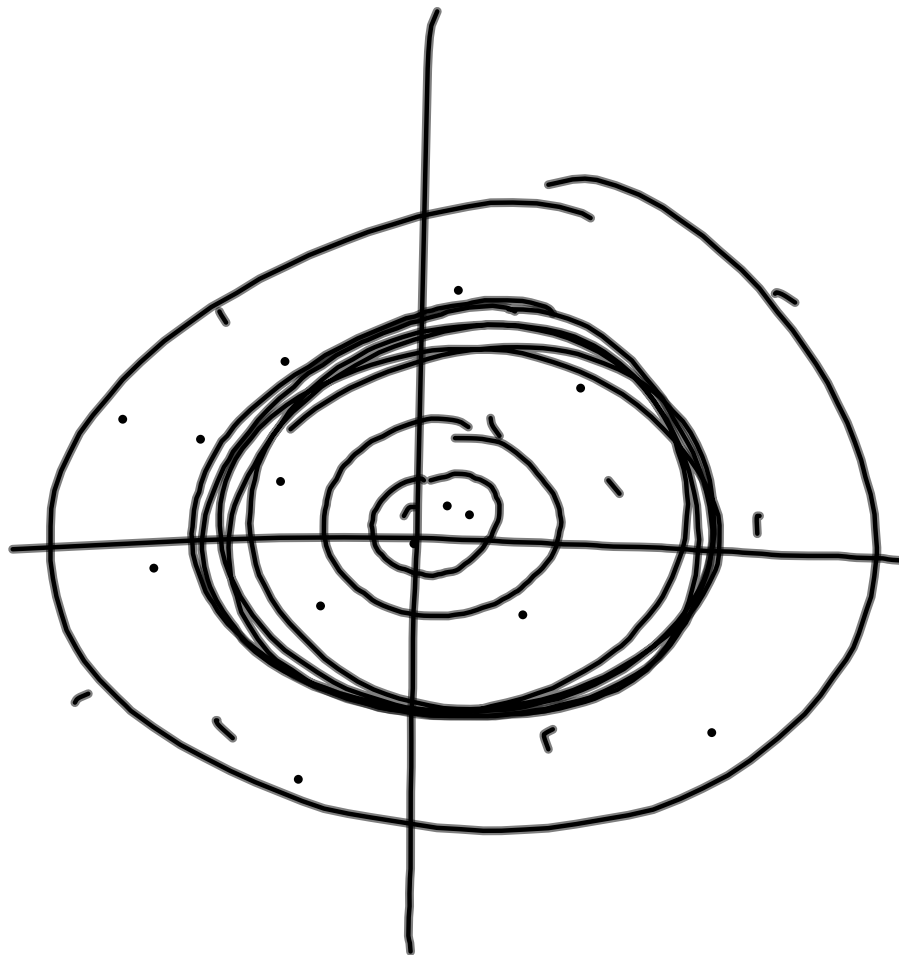
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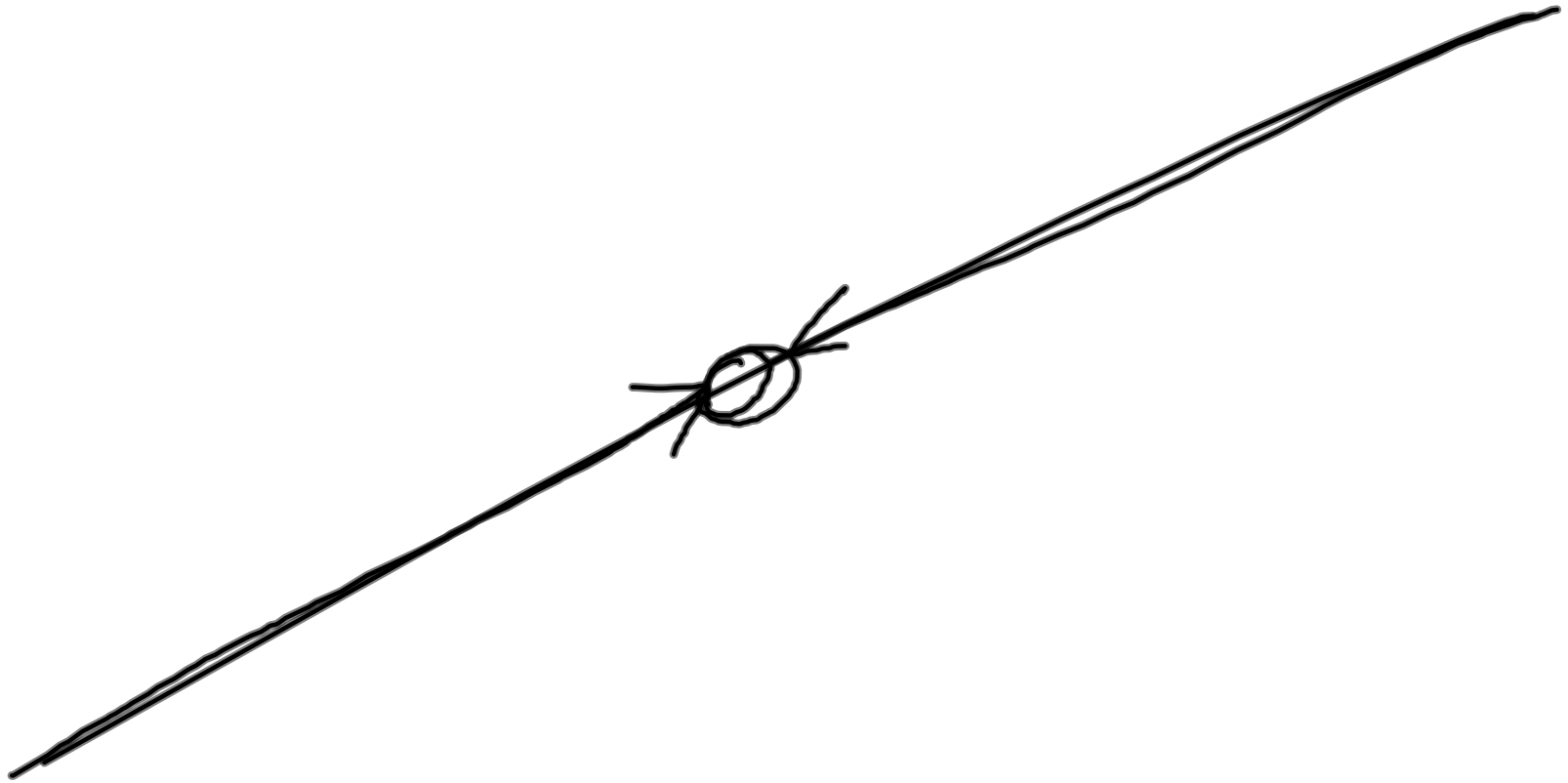
$$\sin x - \sin y = \sin \left( \frac{x+y}{2} + \frac{x-y}{2} \right) -$$

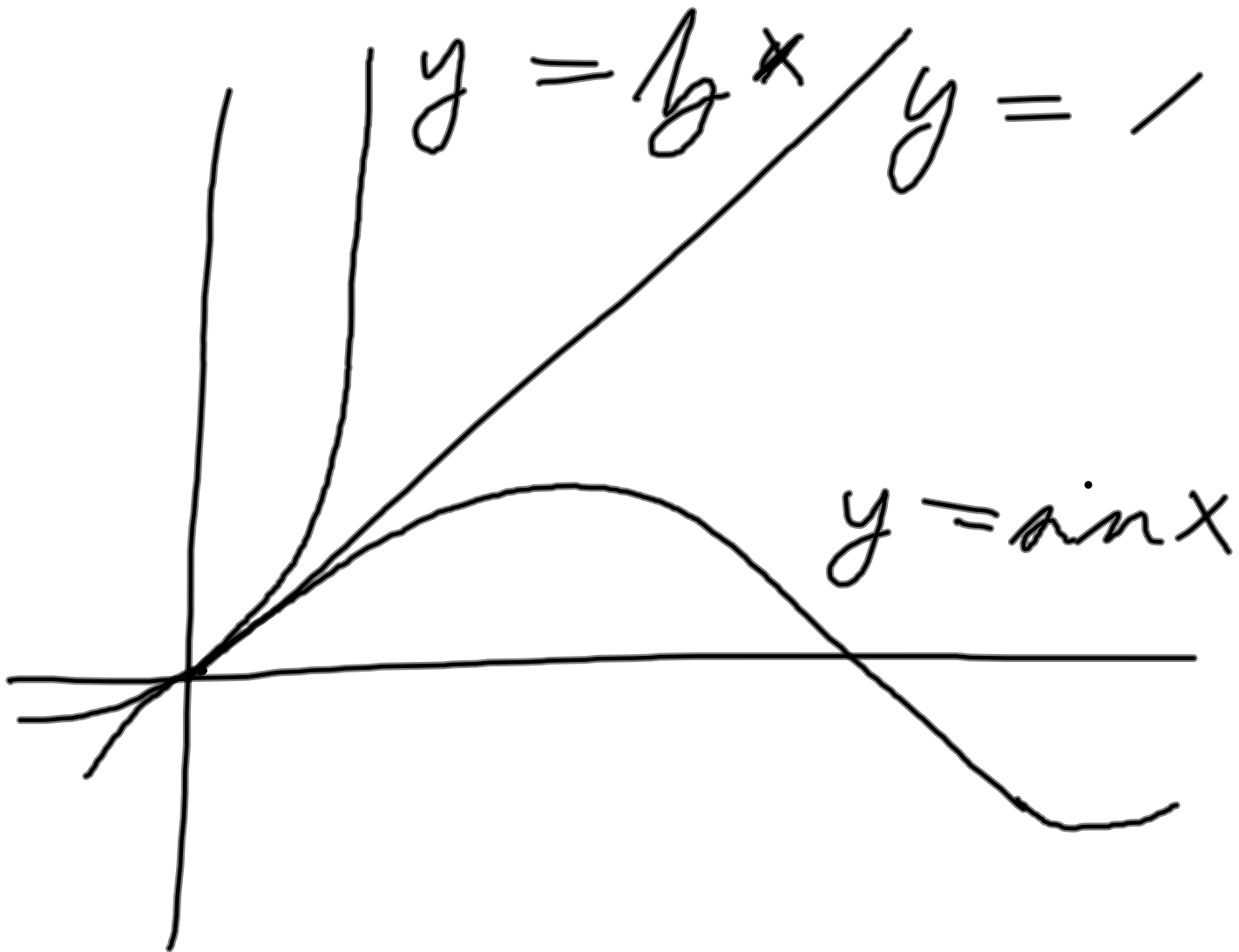
$$- \sin \left( \frac{x+y}{2} - \frac{x-y}{2} \right) =$$

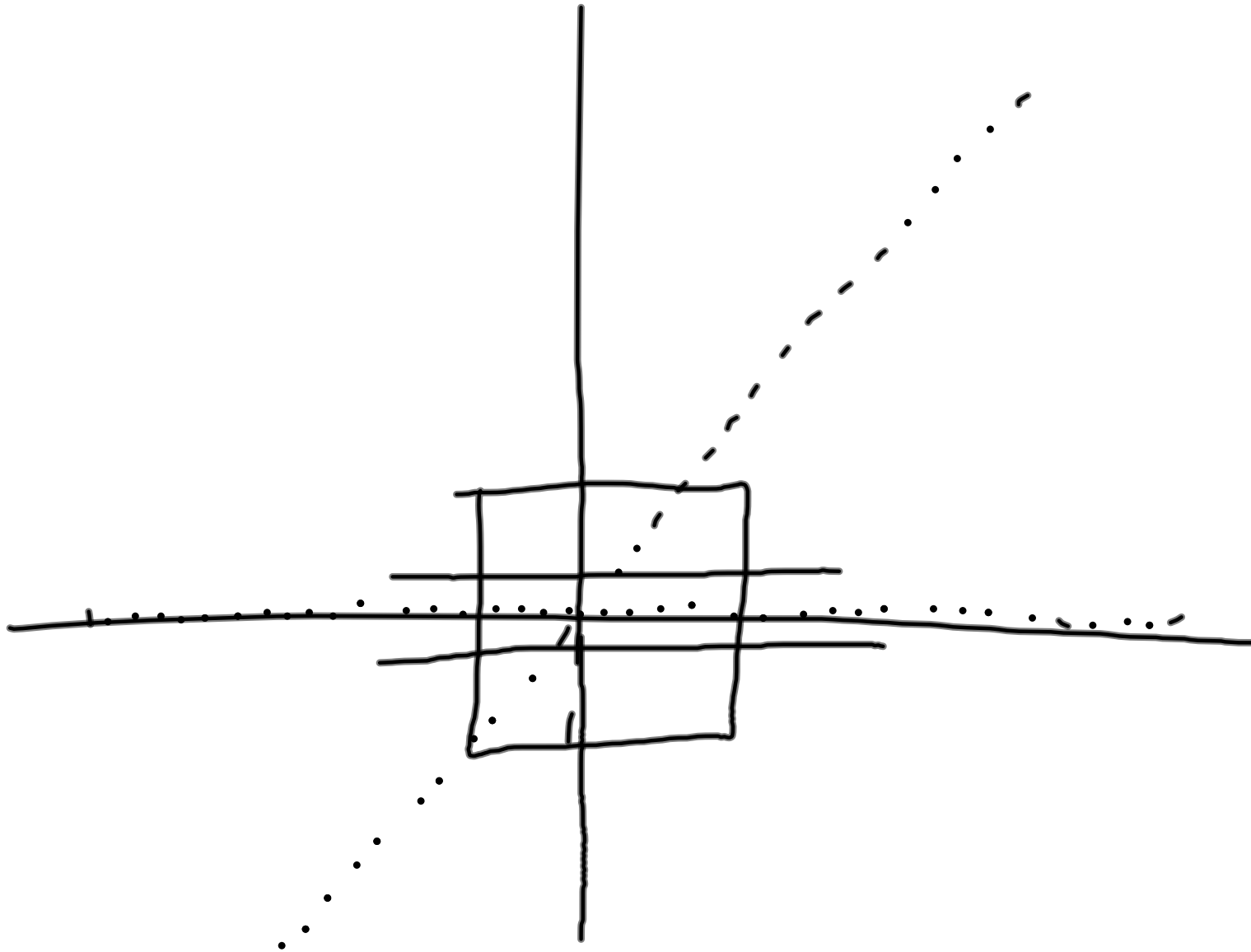
$$= \dots = 2 \cdot \cos \frac{x+y}{2} \cdot \sin \frac{x-y}{2}$$

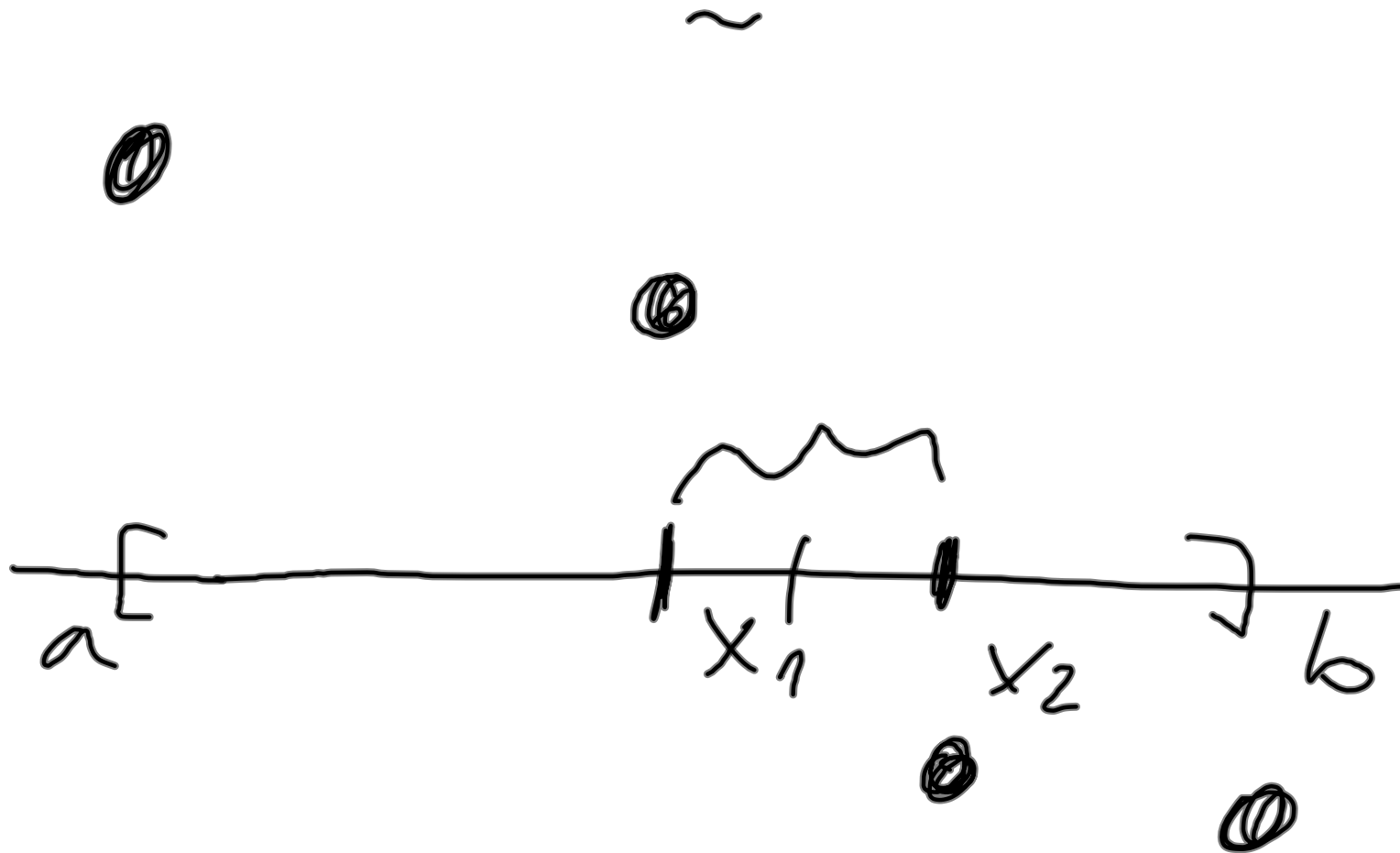
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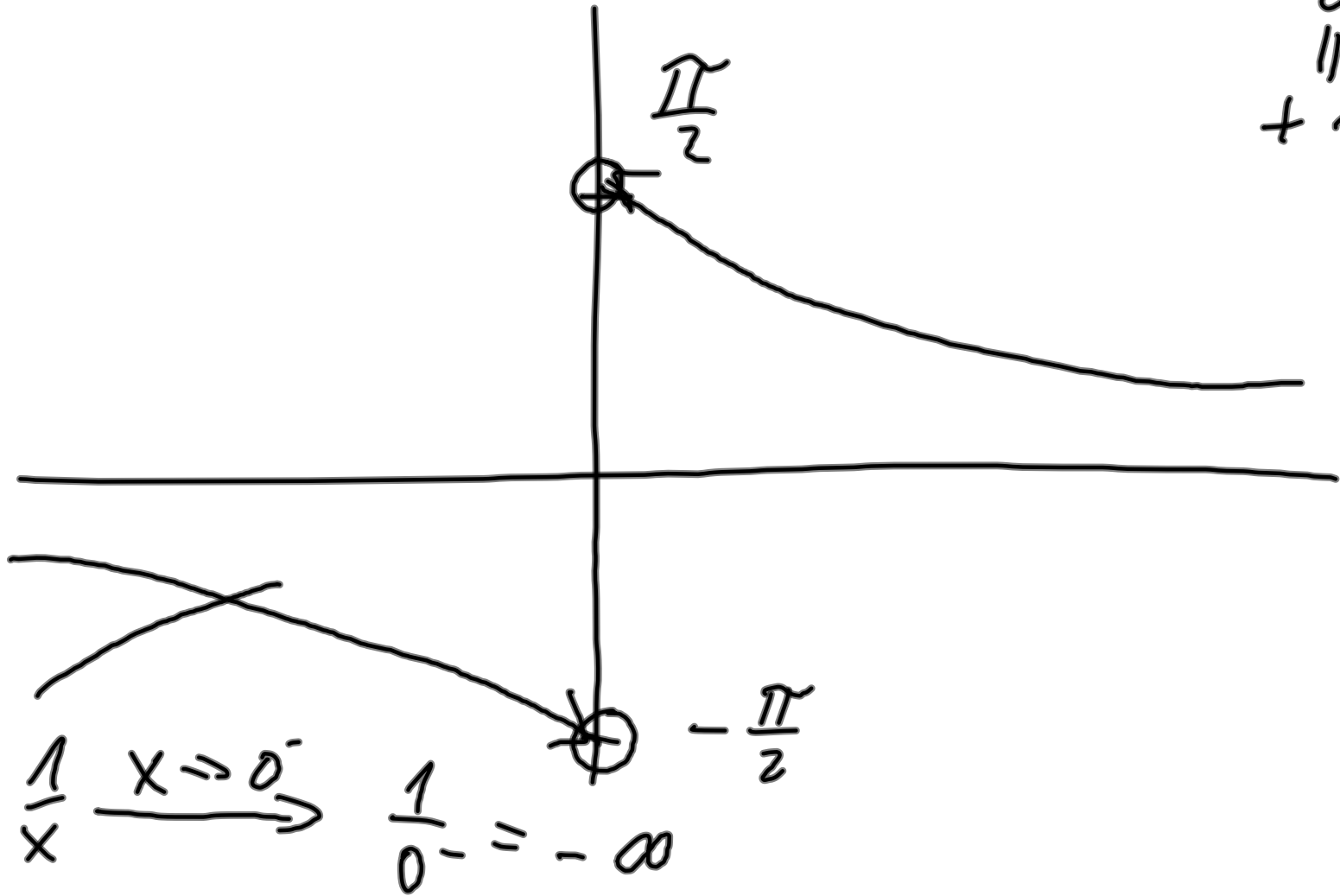






arg  $\frac{1}{x}$

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



$$\frac{1}{x} \xrightarrow{x \rightarrow 0^-} \frac{1}{0^-} = -\infty$$



$$\lim_{x \rightarrow 0^+} e^{\frac{1}{x}} = \left| e^{\frac{1}{0^+}} = e^{\infty} \right| = \text{scribble}$$

$$\lim_{x \rightarrow 0^-} e^{\frac{1}{x}} = \left| e^{\frac{1}{0^-}} = e^{-\infty} = \frac{1}{e^{\infty}} = \frac{1}{\infty} \right| =$$

$$\underline{\underline{0}}$$