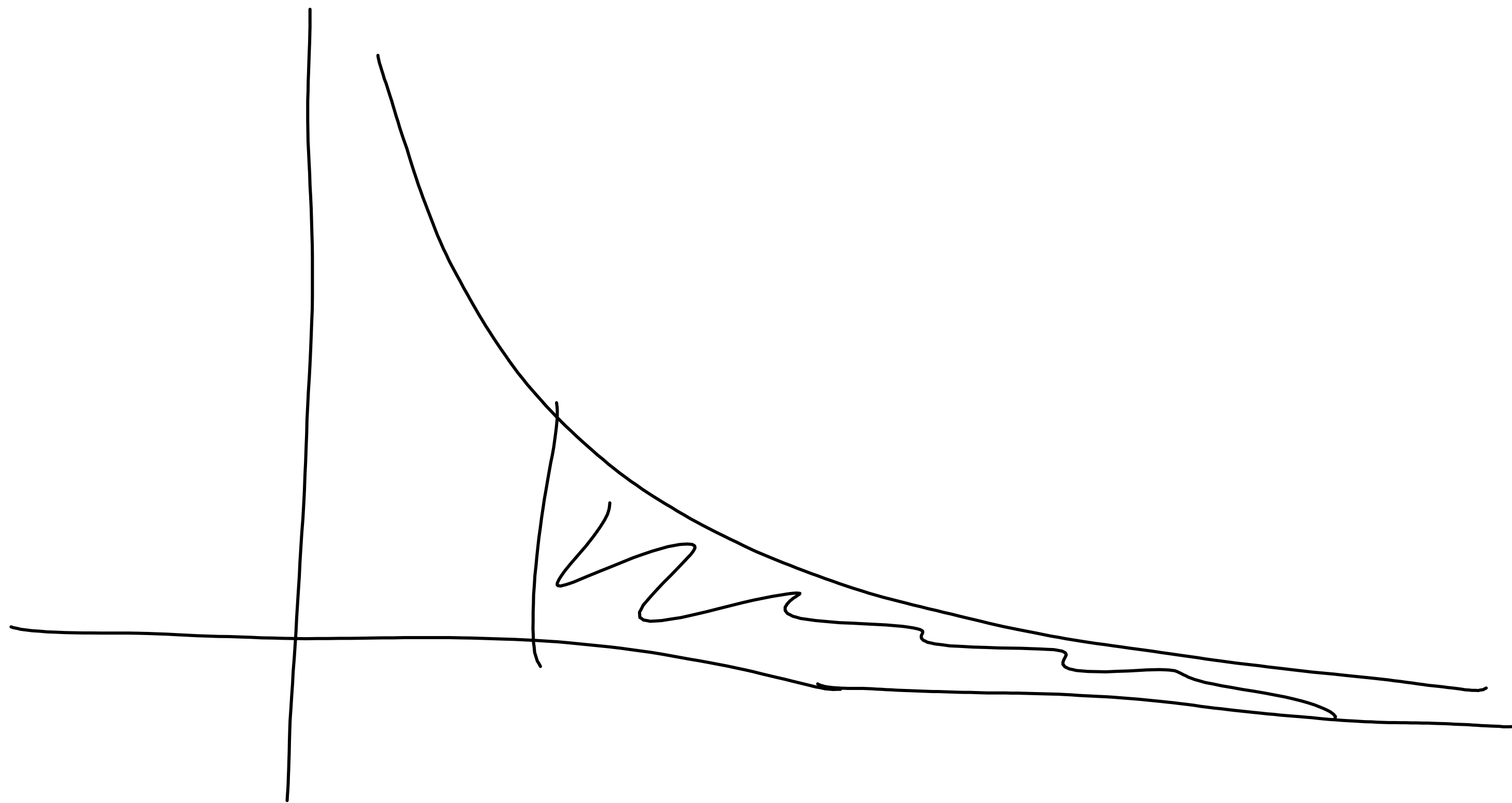
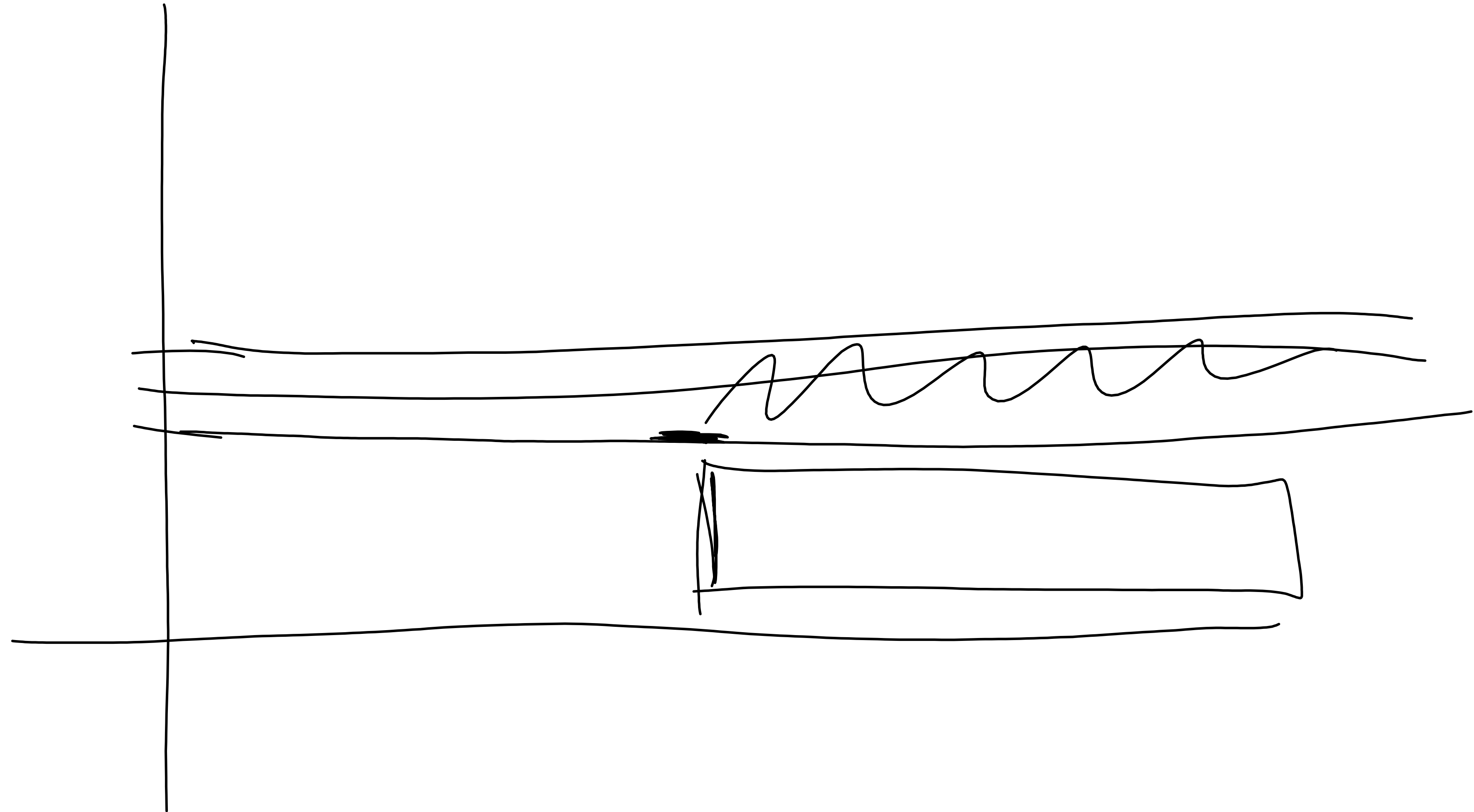


$$\frac{1}{x^\alpha}$$




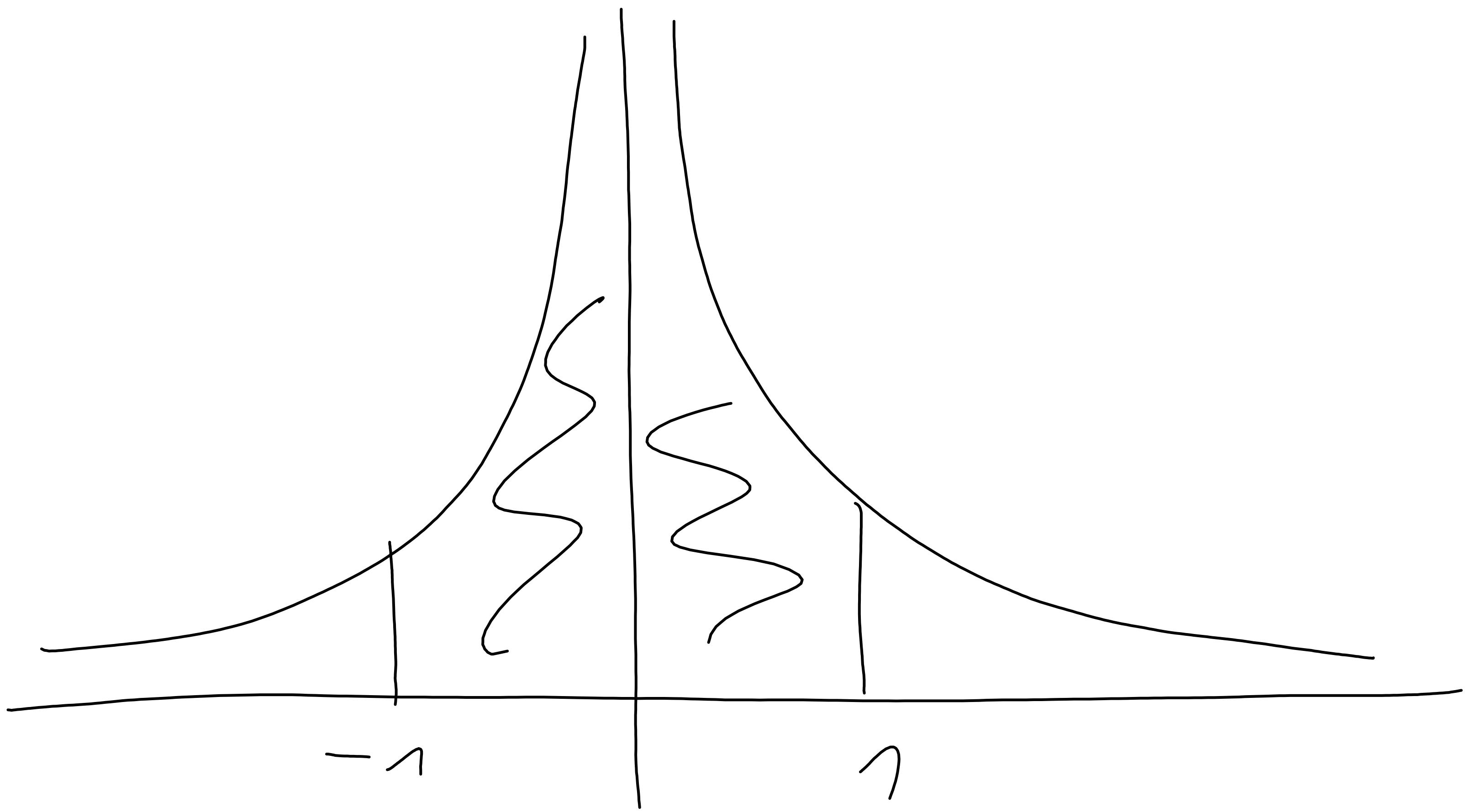


$$|5 + (-3)|$$

$$|5| + |-3|$$

$$\int_0^1 \frac{1}{x} dx = \lim_{a \rightarrow 0^+} \int_a^1 \frac{1}{x} dx$$

$$\int_{-1}^1 \frac{1}{x^2} dx = \left[\frac{x^{-1}}{-1} \right]_{-1}^1 = - \left[\frac{1}{x} \right]_{-1}^1 = - (1 + 1) = -2$$




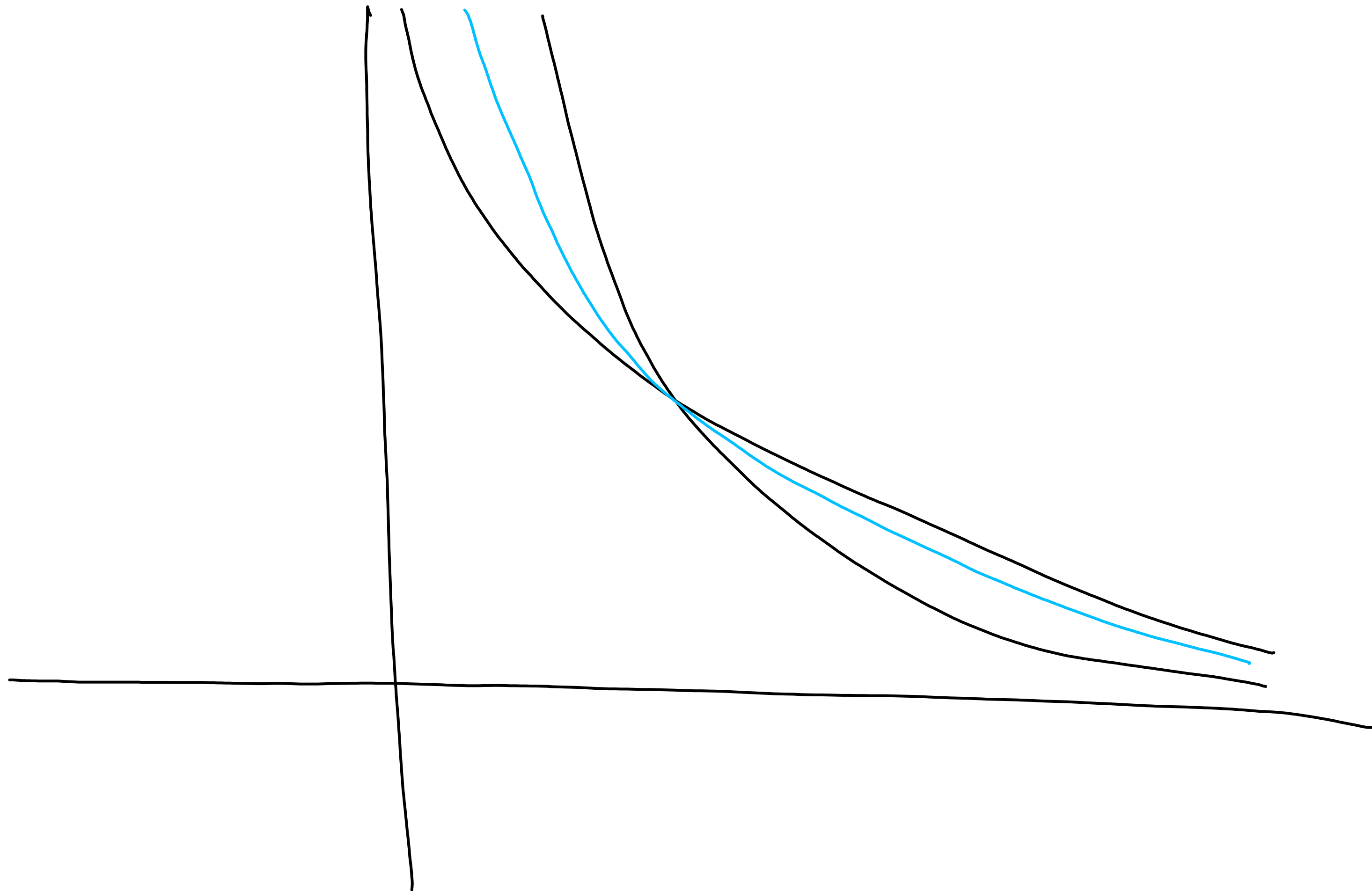
$$\int_{-1}^1 \frac{1}{x^2} dx = \int_{-1}^0 \frac{1}{x^2} dx + \int_0^1 \frac{1}{x^2} dx$$

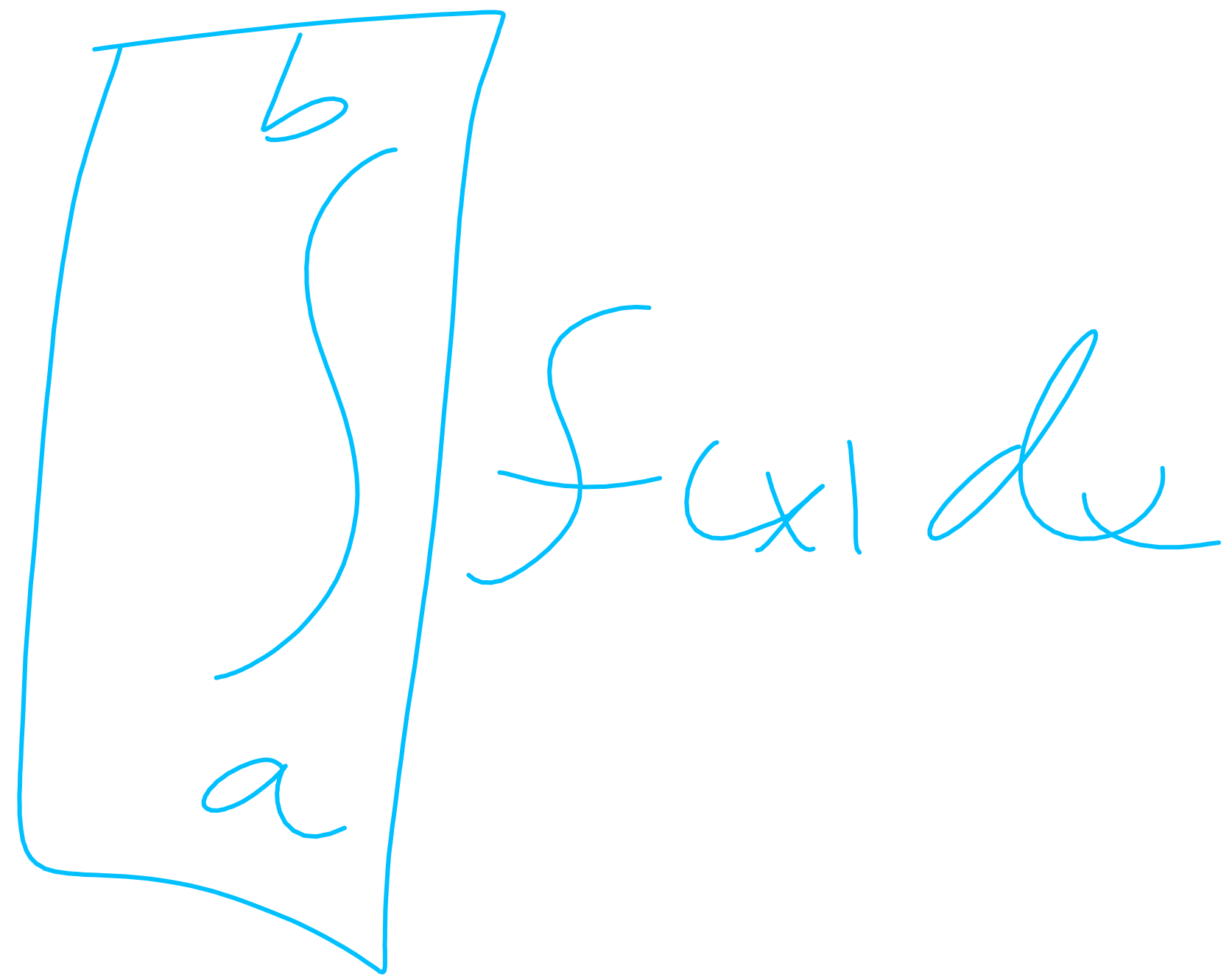
|| ...

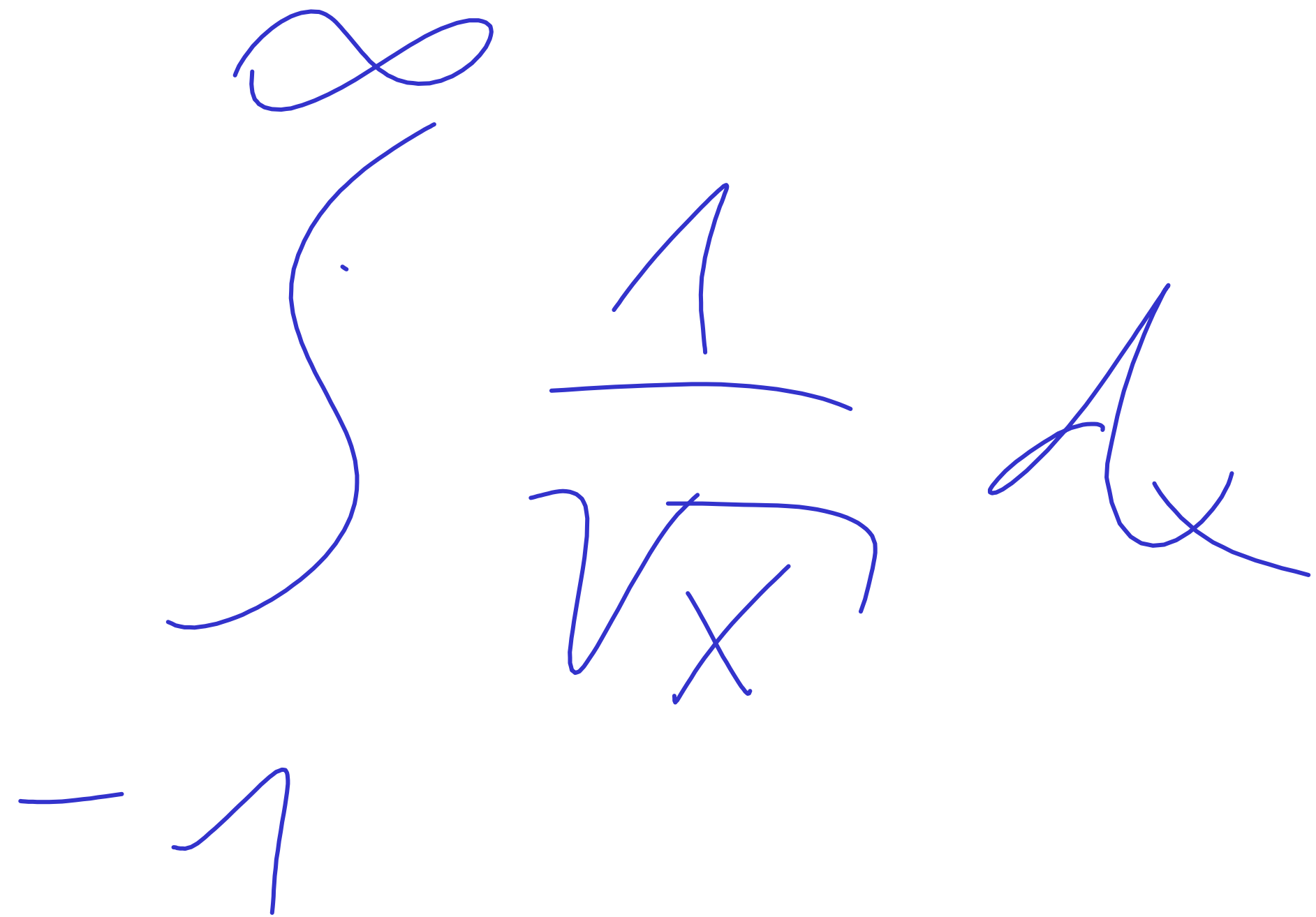
$$\int_{-1}^0 \frac{1}{x^2} dx = \left[\frac{x^{-1}}{-1} \right]_{-1}^0 = - \left[\frac{1}{x} \right]_{-1}^0 =$$

$$= - \left(\lim_{x \rightarrow 0^-} \frac{1}{x} + 1 \right)$$

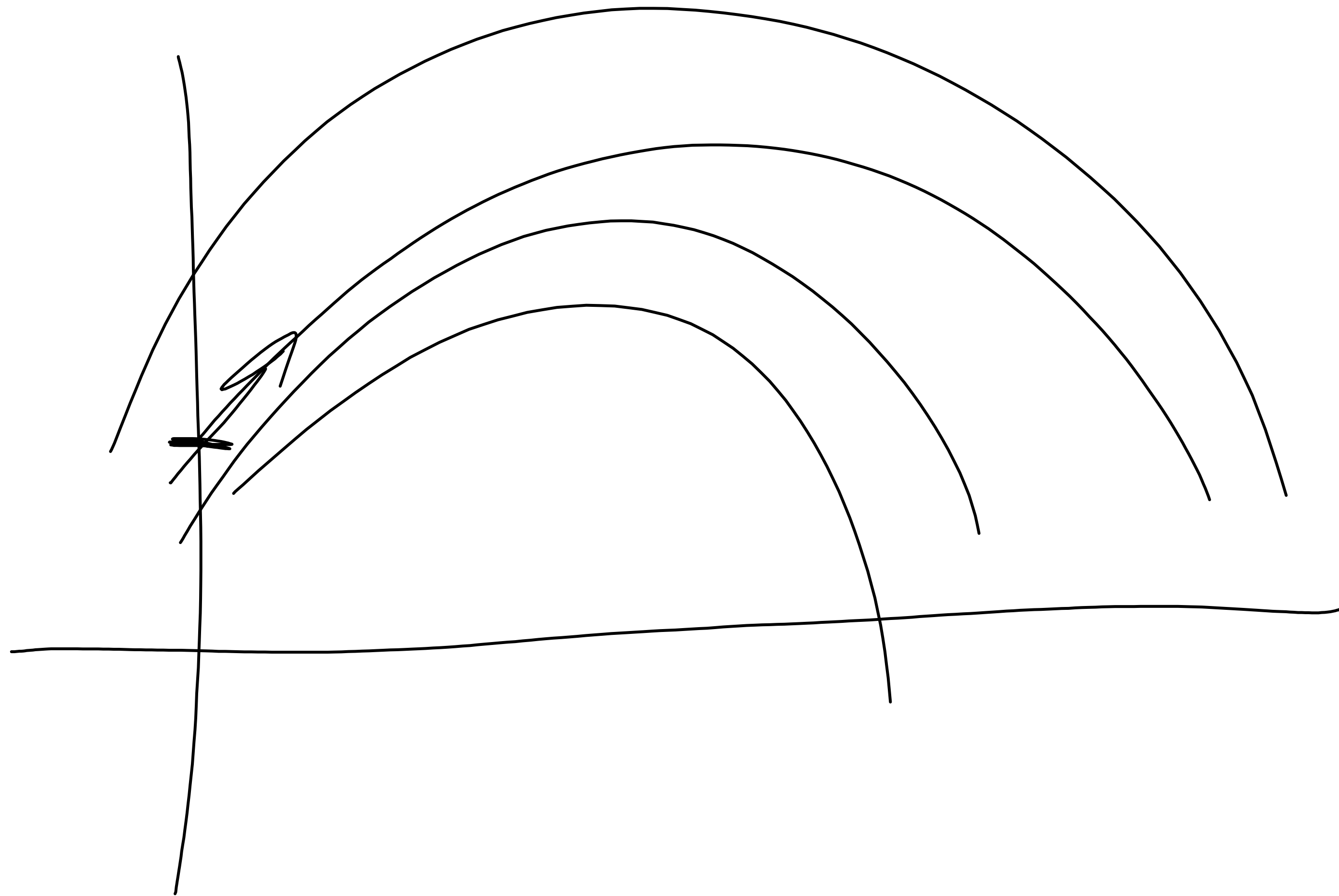





$$\int_a^b f(x) dx$$


$$\int_{-1}^{\infty} \frac{1}{\sqrt{x}} dx$$

$$X^2 + y^2 = 1$$



$$y = C \cdot e^x$$

$$y(0) = 7$$

$$y = 7 \cdot e^x$$

$$7 = C \cdot e^0$$

$$C = 7$$

$$y(0) = 1$$
$$y'(0) = 5$$
$$y''(0) = -2$$

$$y(0) = 1$$
$$y'(0) = 5$$

$$y(3) = 7$$

$$y(0) = 1$$

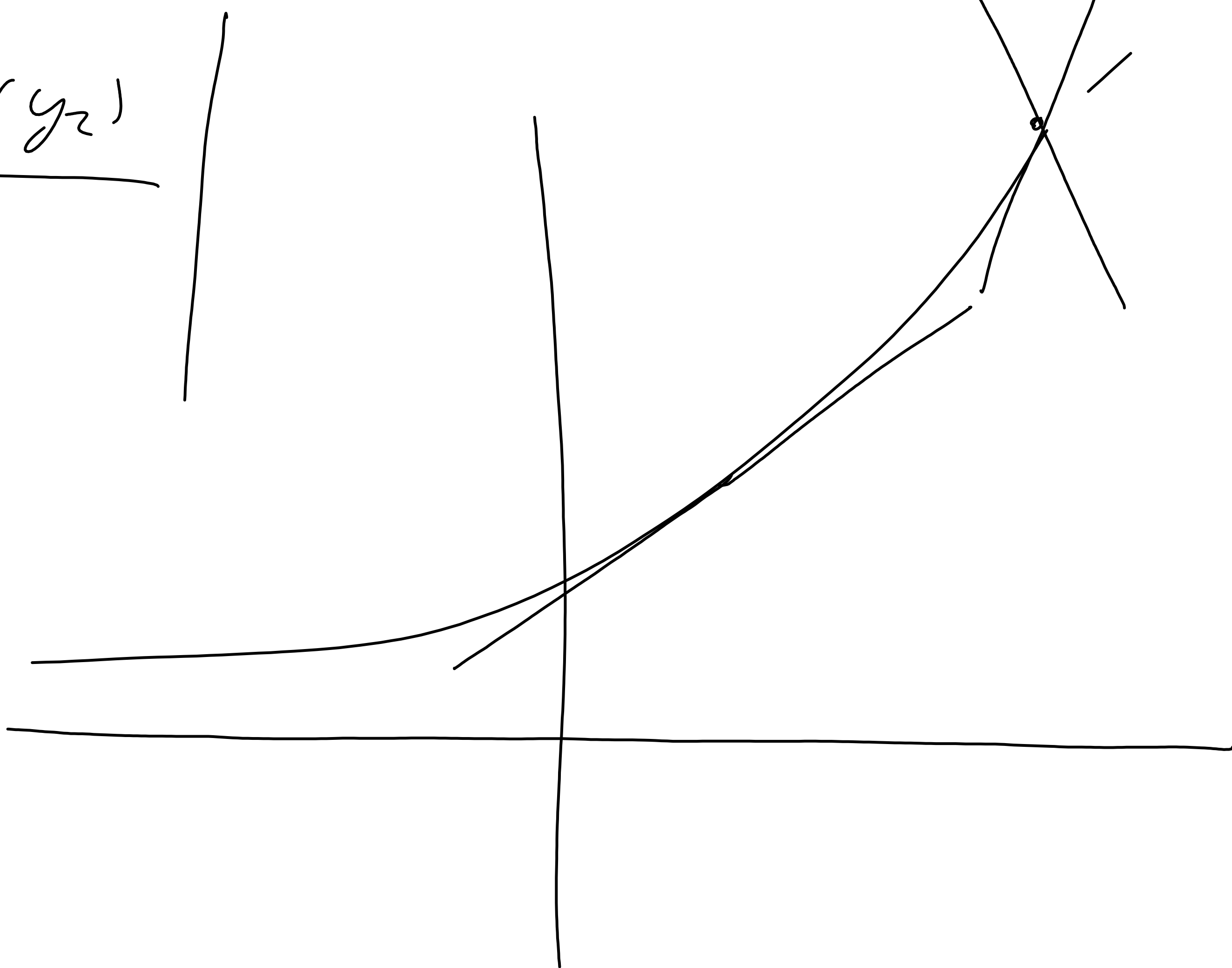
$$y'(0) = 2$$

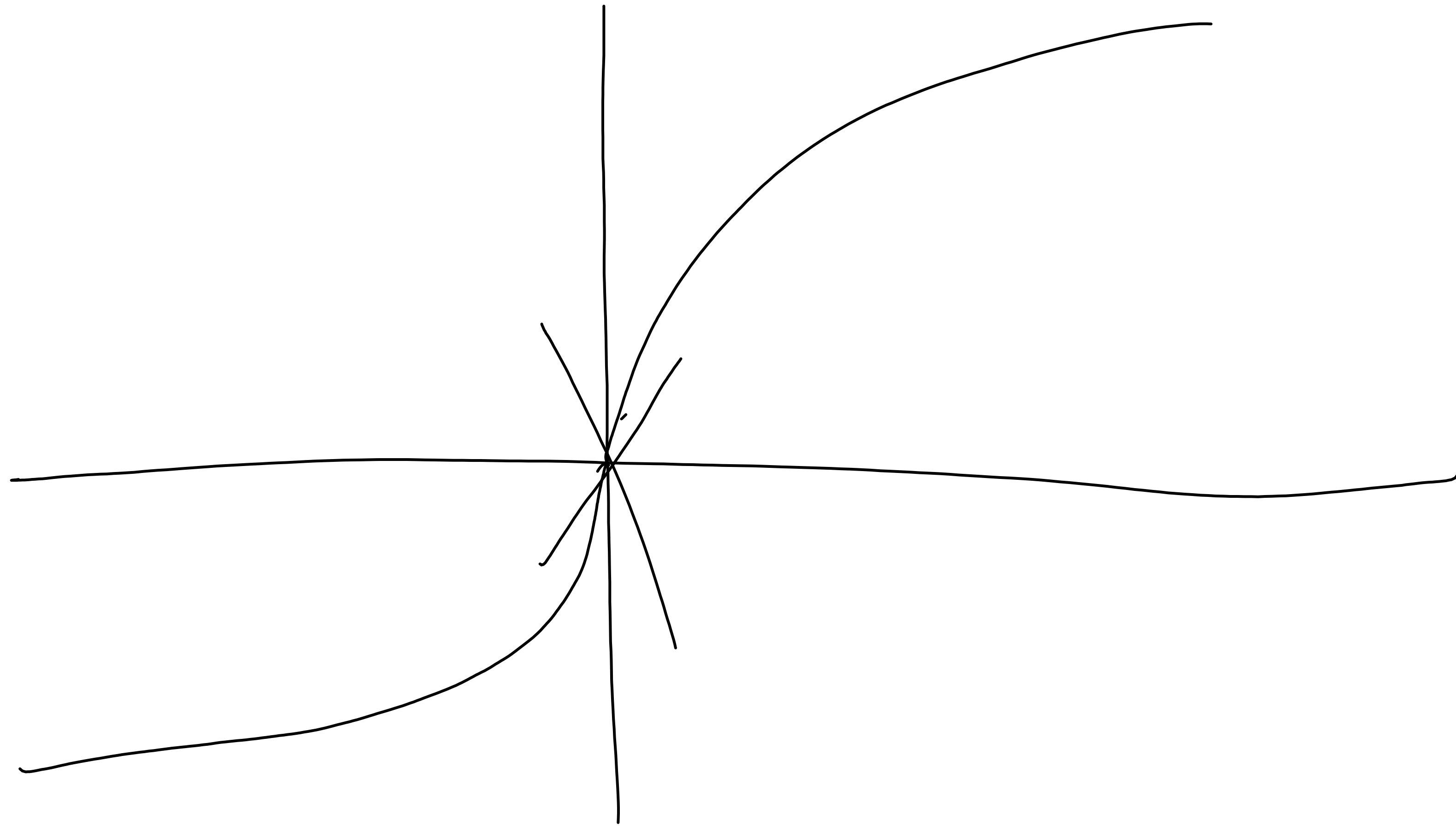
$$y(0) = 1$$

$$y(5) = 2$$

$$L \approx \left| \frac{f(y_1) - f(y_2)}{y_1 - y_2} \right|$$

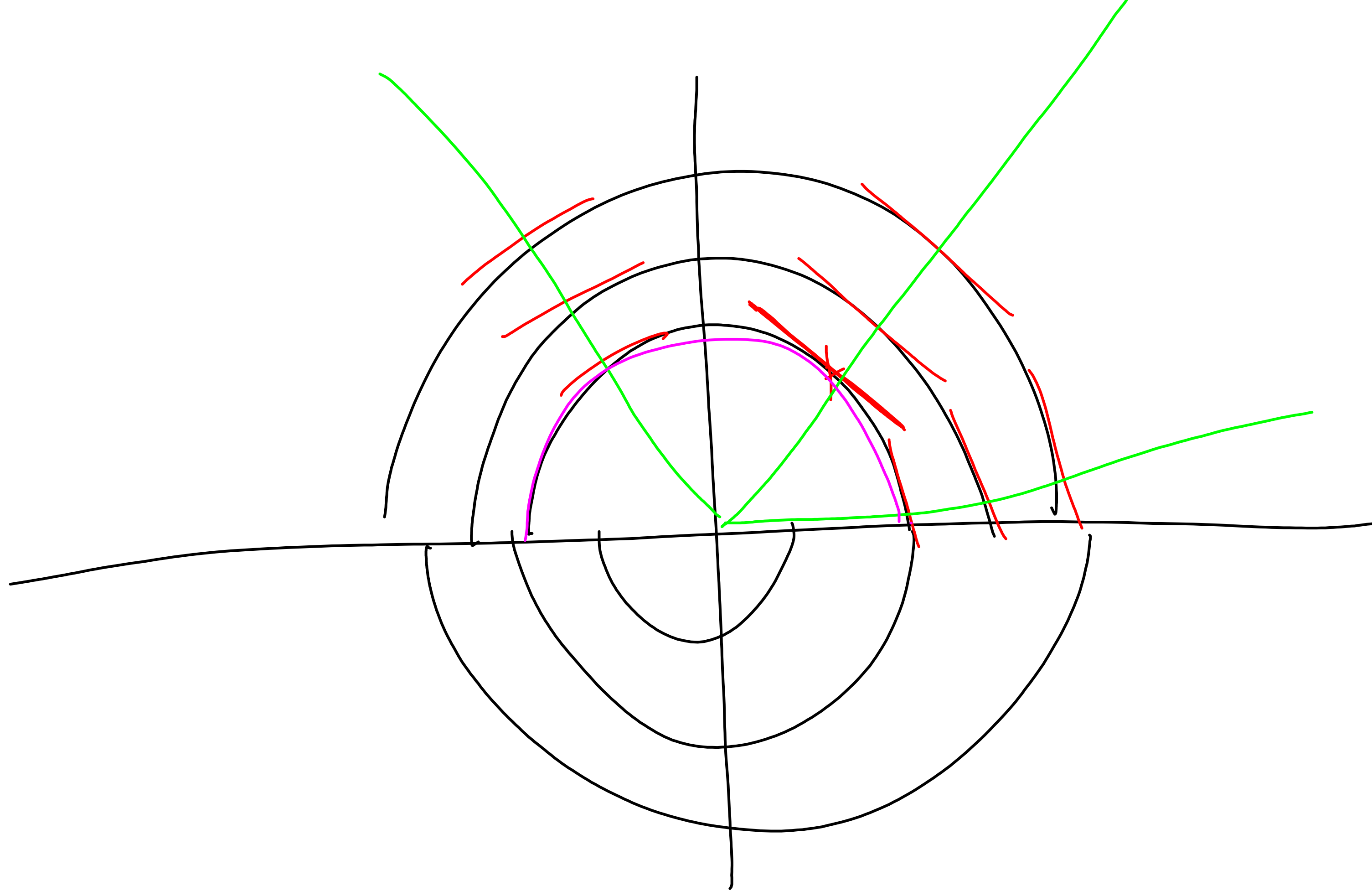
$$(e^x)' = e^x$$





$$\frac{dy}{dx} = y^3$$

$$\frac{dx}{dy} = y^{-3}$$



$$y' = -\frac{x}{y}$$

$$X' = f(g)$$

