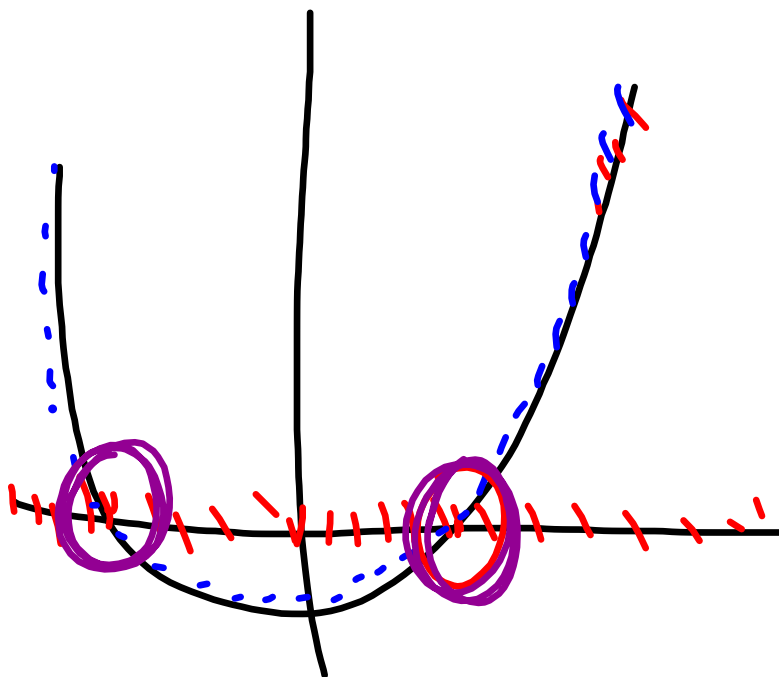

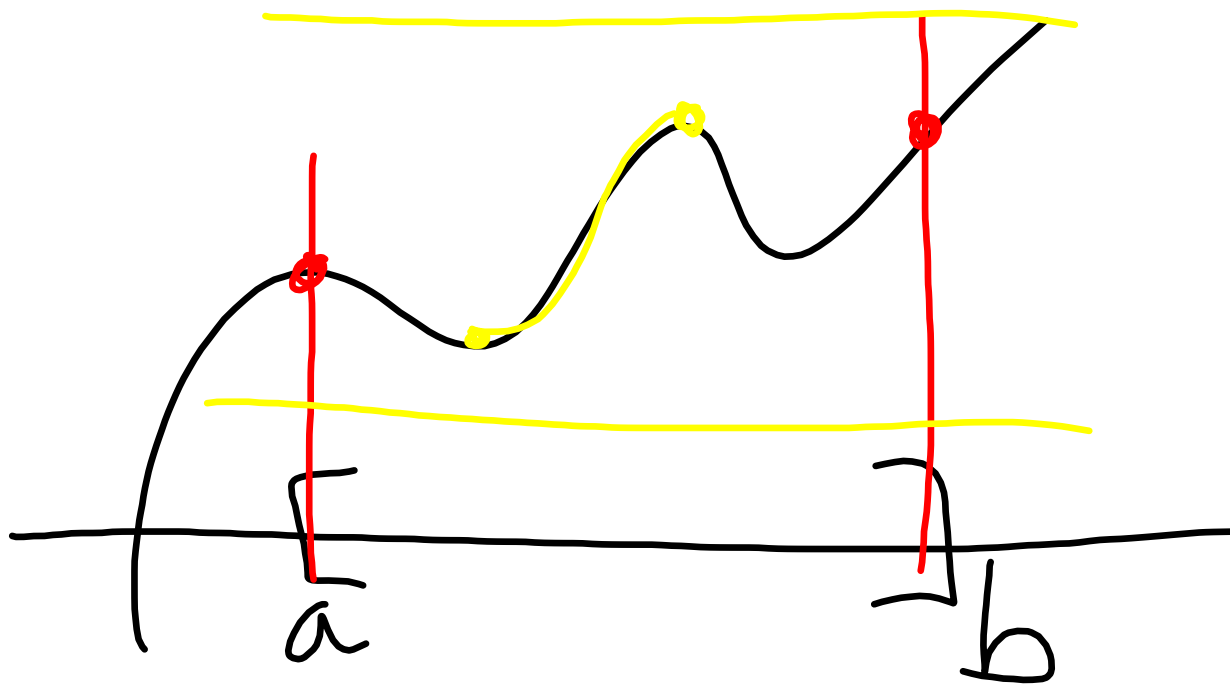


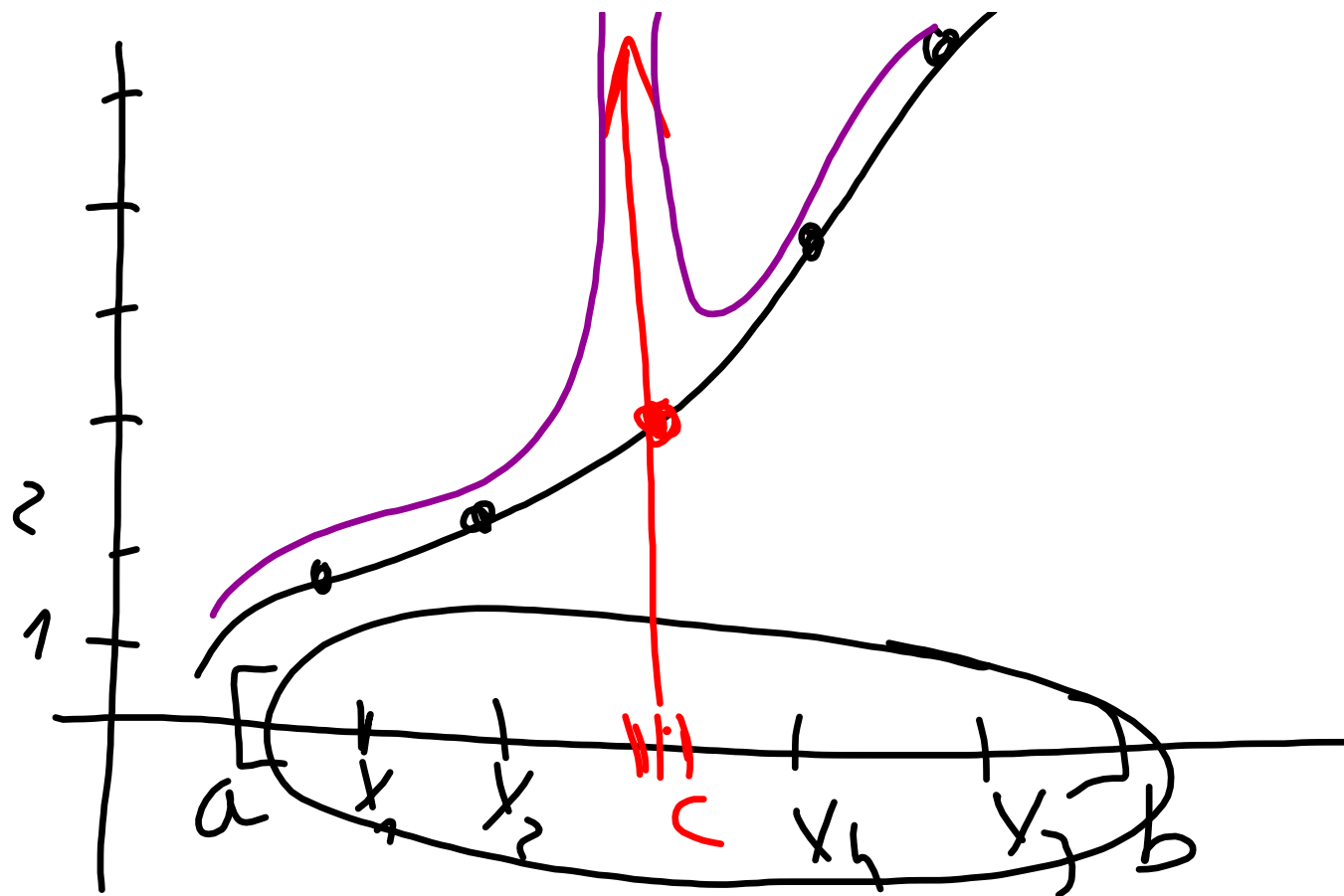
$$\underbrace{(x-1) \cdot (x+1)}_{x^2-1} \cdot \chi(x) = f(x)$$

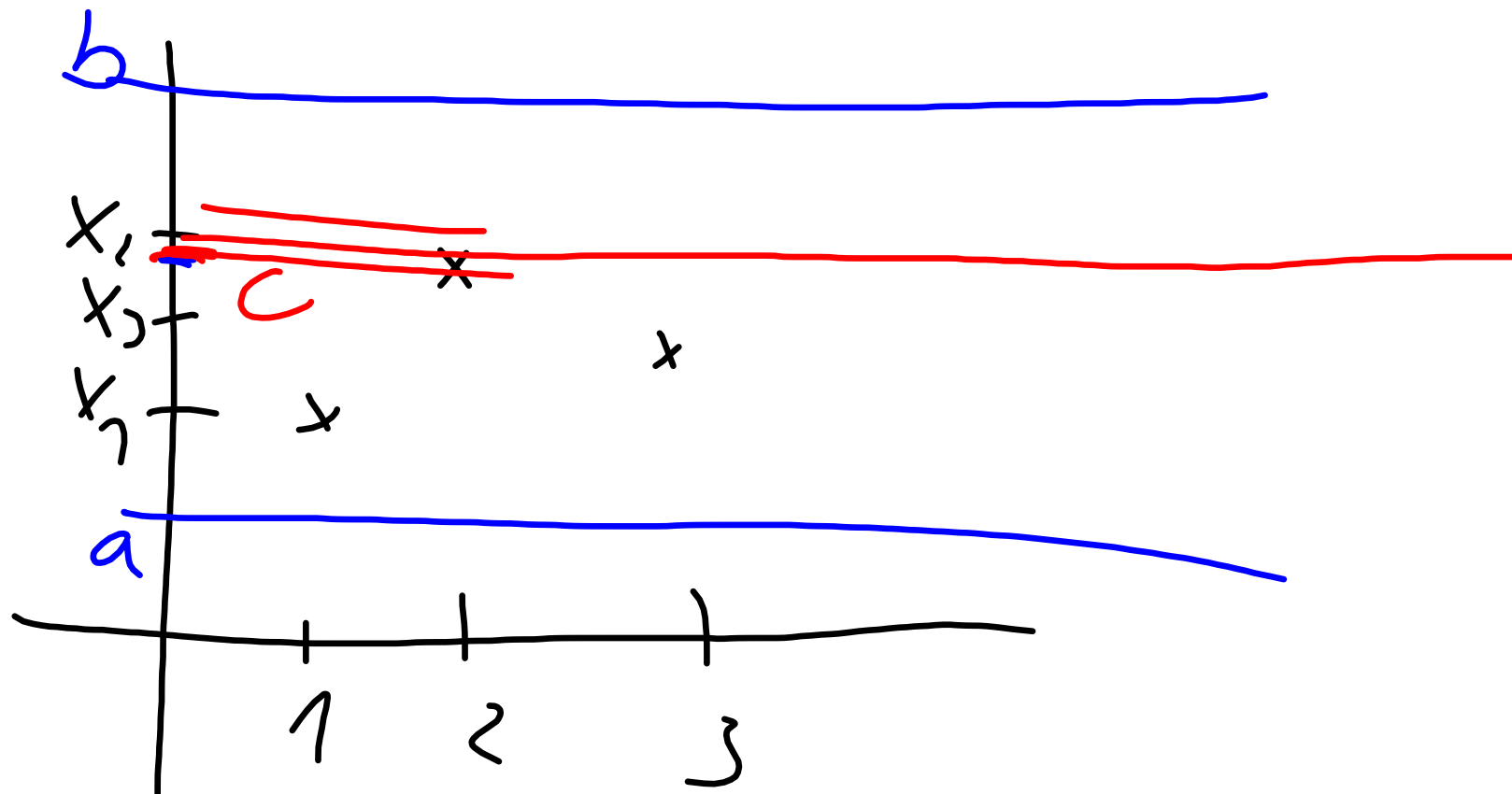


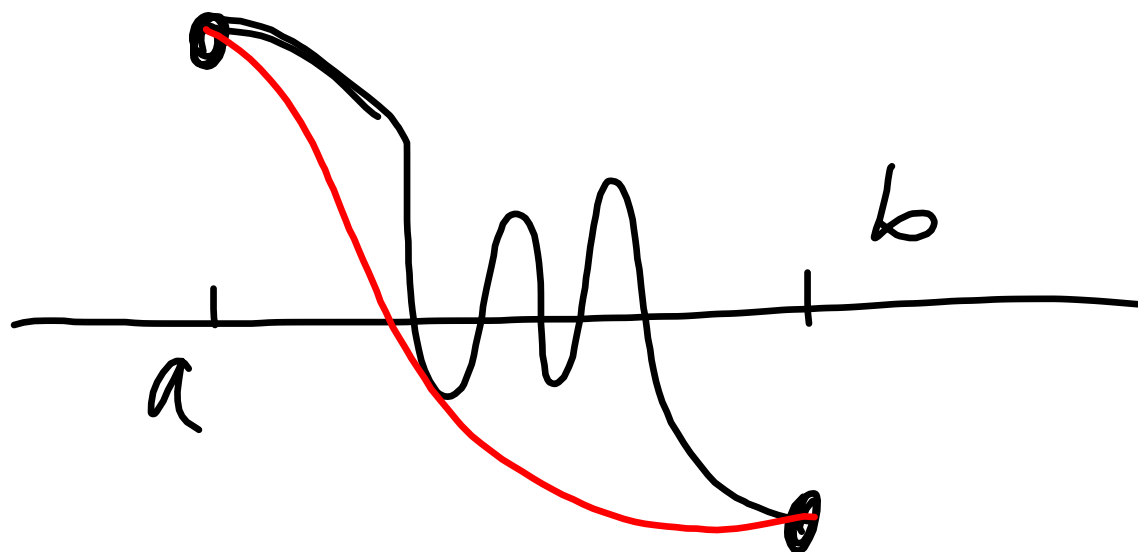


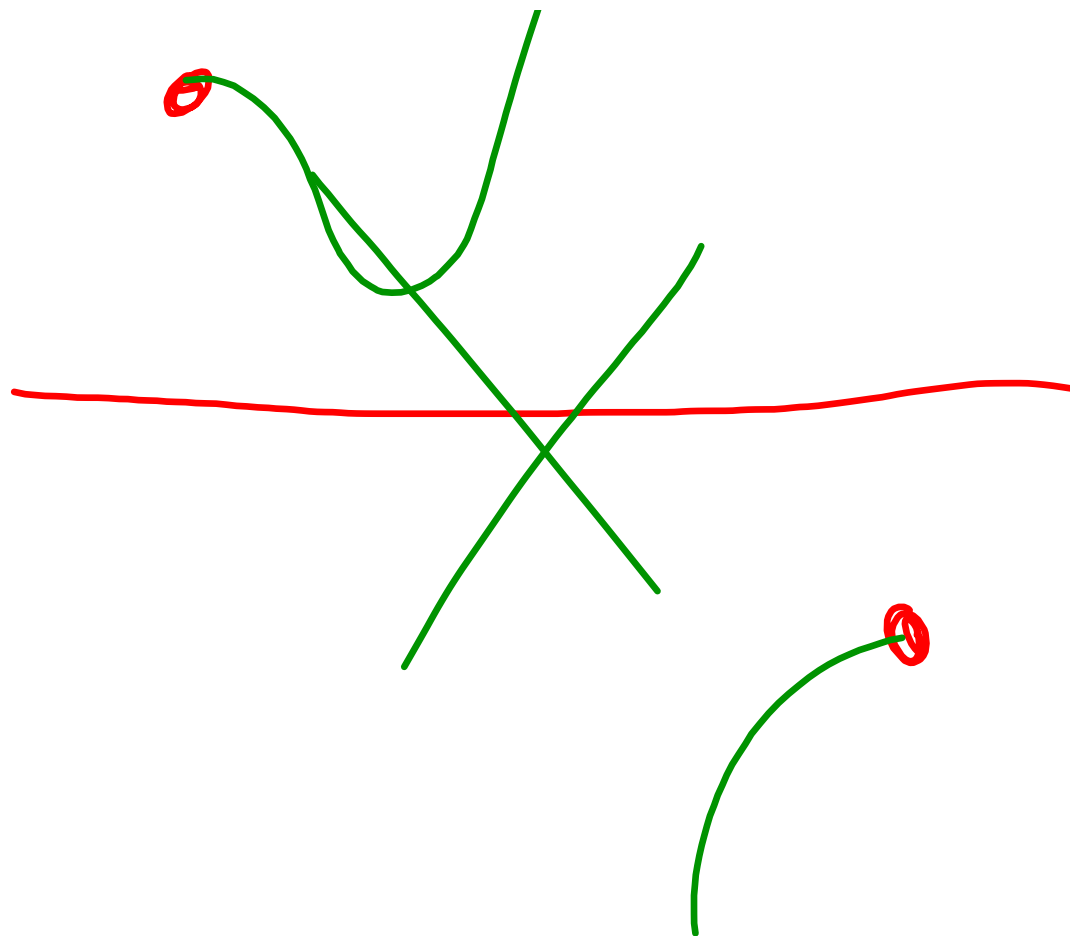
$$\lim (5 \cdot f(x)) = \lim 5 \cdot \underline{\underline{\lim f}}$$


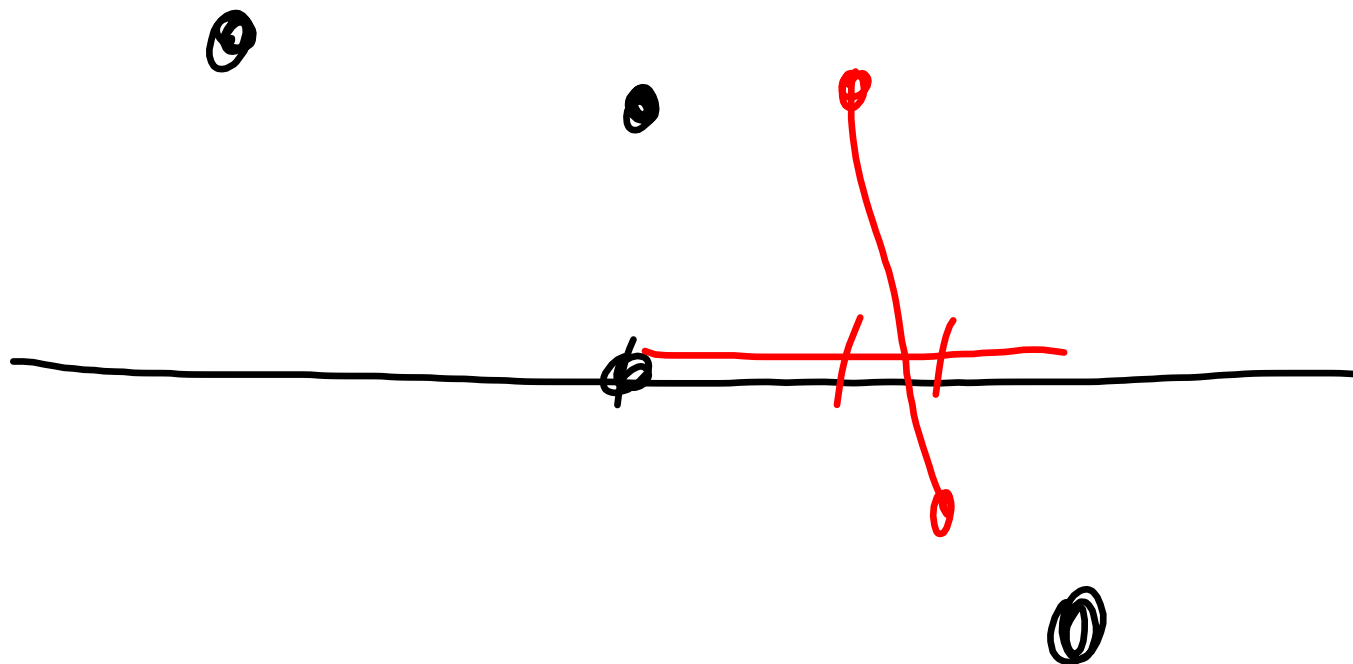






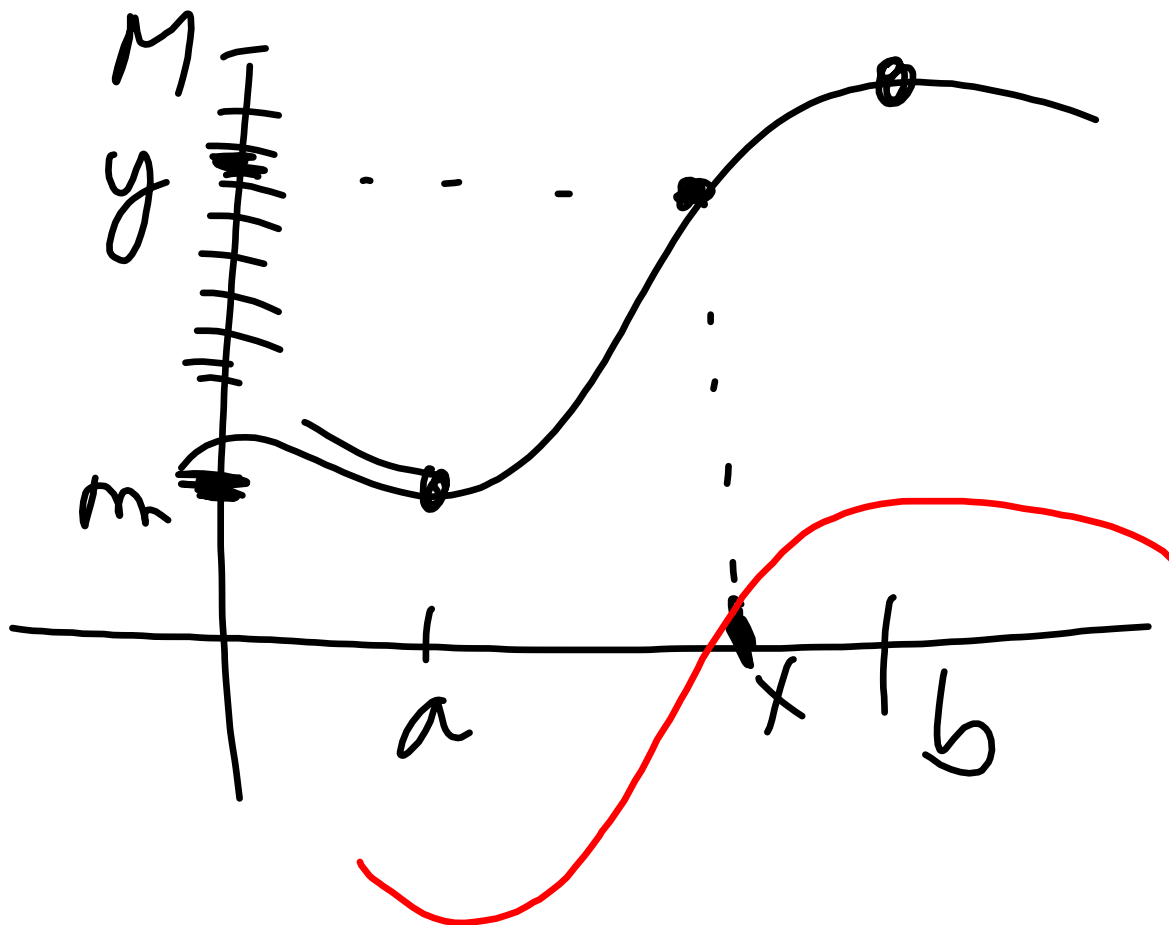


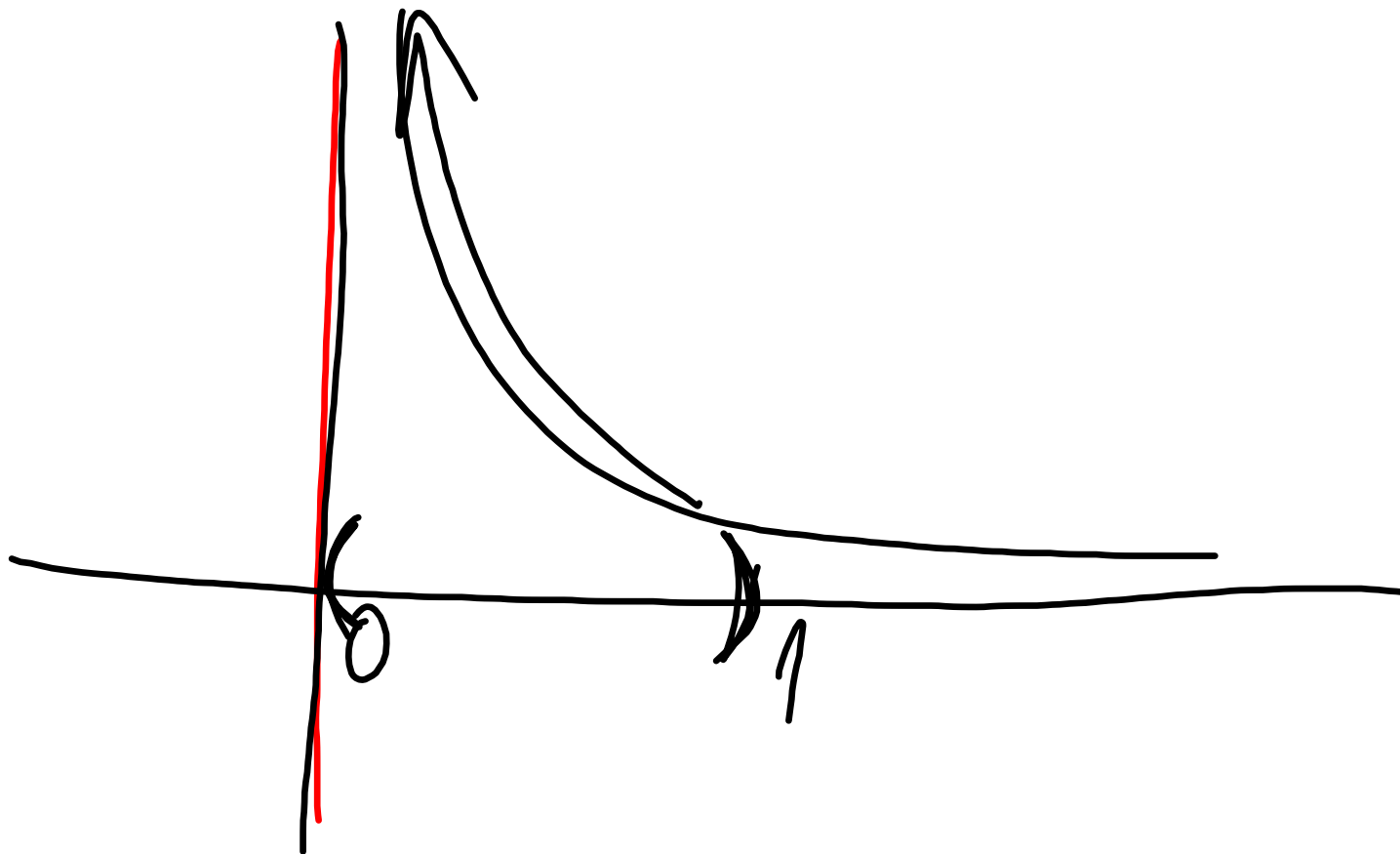




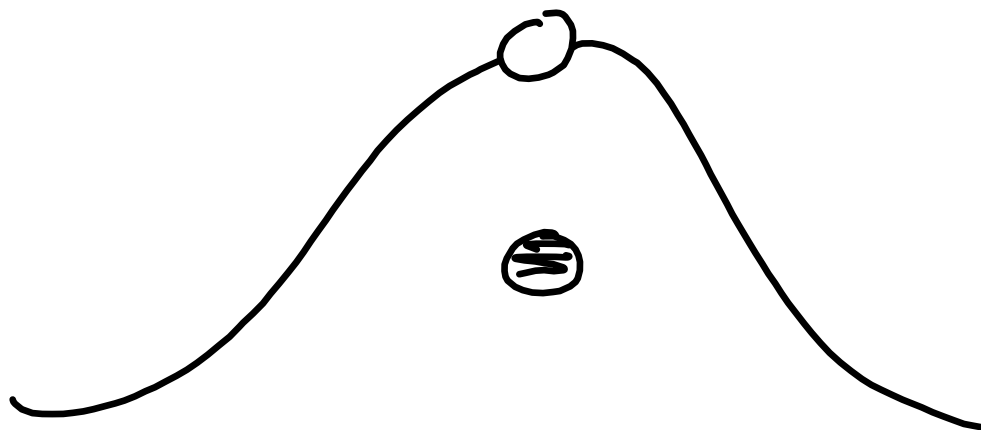








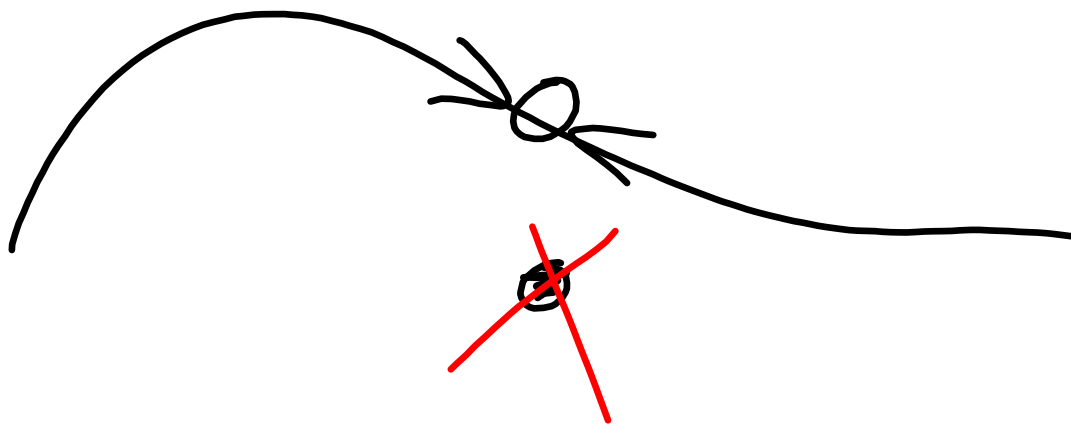


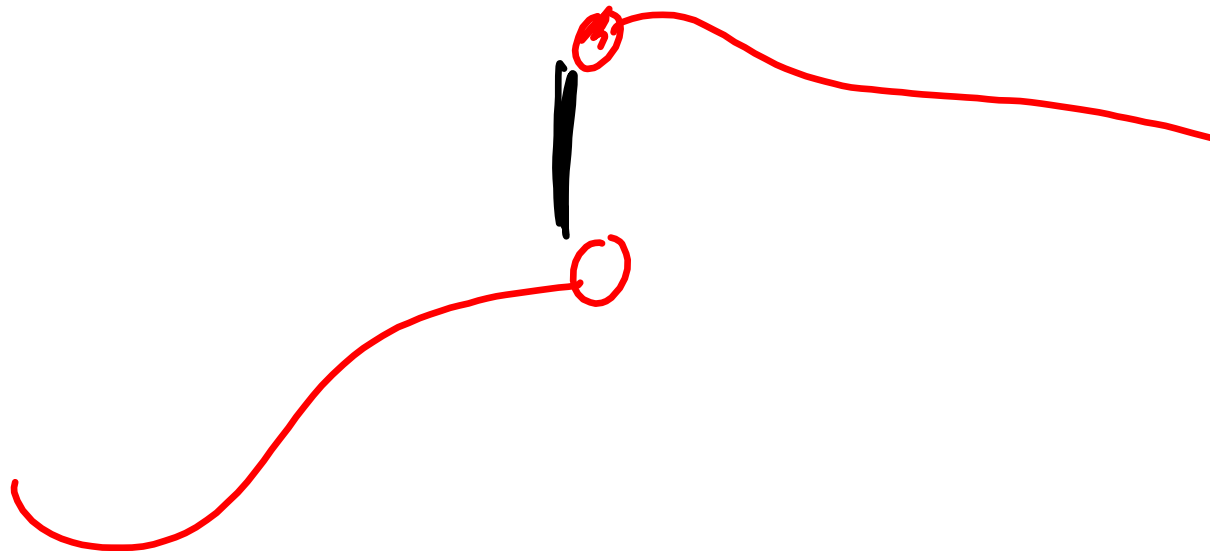


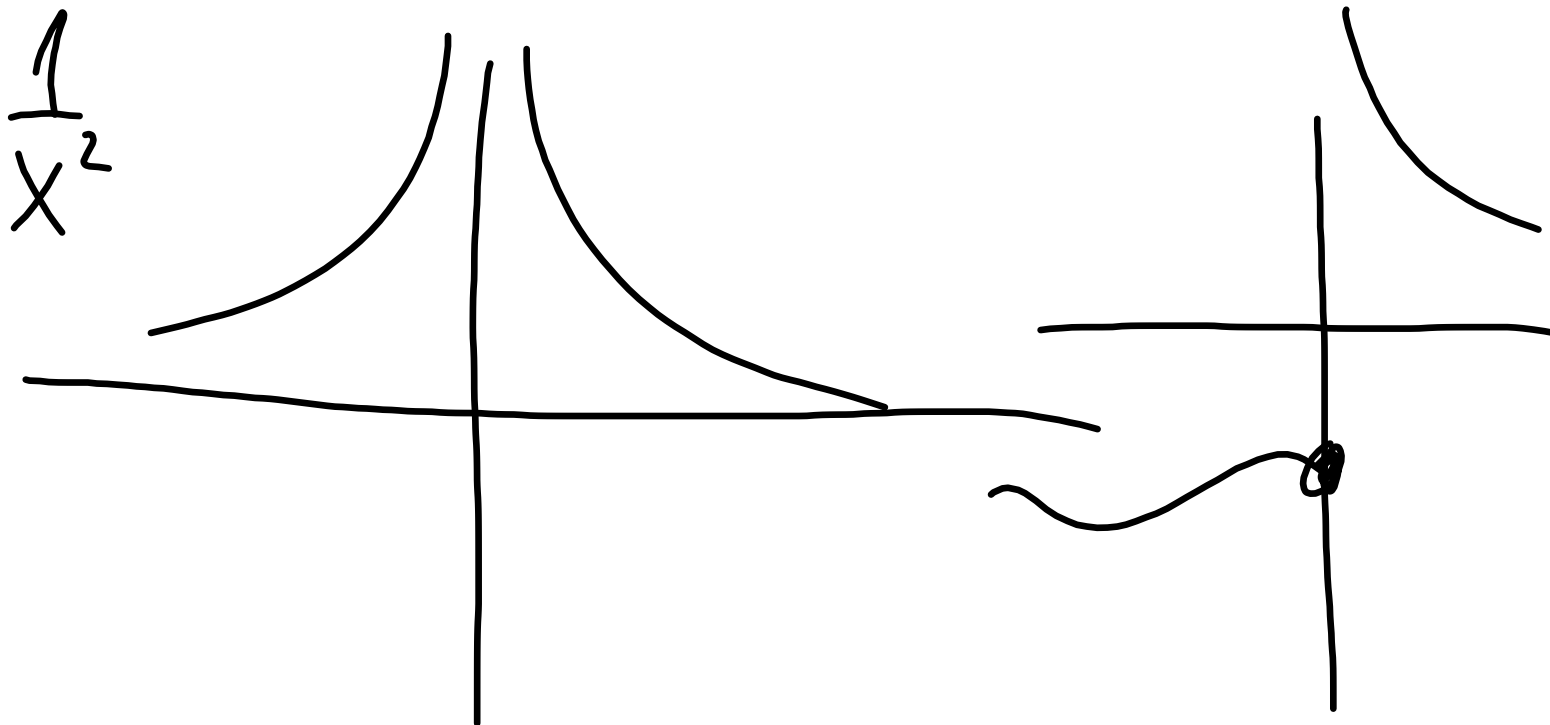
$$\lim_{x \rightarrow +\infty} (-5)x^{67} = -\infty$$

$$x \rightarrow -\infty = +\infty$$

$[a, b]$



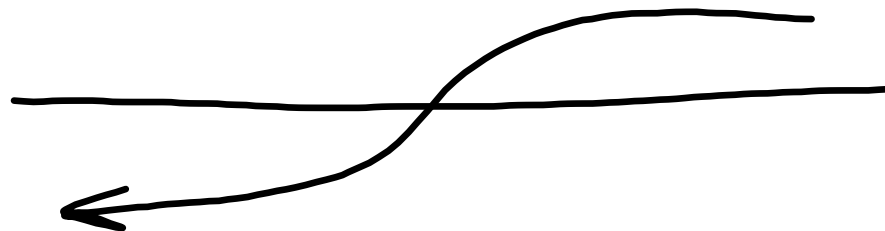
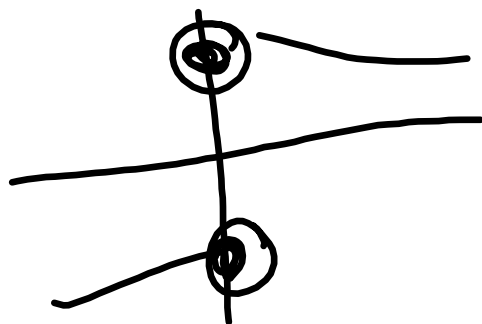


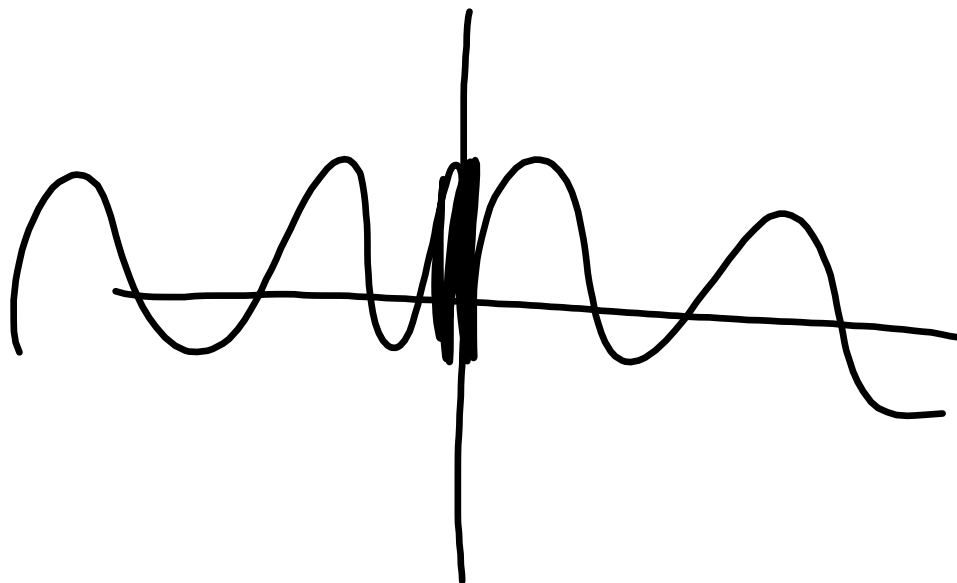




$$\lim_{x \rightarrow 0^+} \text{arctg} \frac{1}{x} = \left| \text{arctg} \frac{1}{0^+} - \text{arctg}(+\infty) \right| = \frac{\pi}{2}$$

$$\lim_{x \rightarrow 0^-} \text{arctg} \frac{1}{x} = \left| \text{arctg} \frac{1}{0^-} - \text{arctg}(-\infty) \right| = -\frac{\pi}{2}$$





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

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