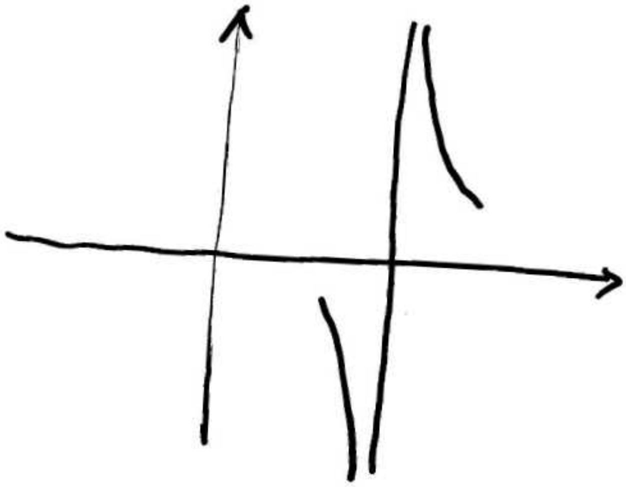
) $\lim_{x \to x_0^-} f(x) = -\infty$



$\lim_{x \to 0^-} \frac{1}{x} = -\infty$, $\lim_{x \to 0^+} \frac{1}{x} = +\infty$

TEOR. WEIERSTRAS

$$f \text{ CONT. } [a,b] \Rightarrow \begin{cases} \exists \bar{x}, \bar{\bar{x}} \in [a,b]: \\ f(\bar{x}) \le f(x) \le f(\bar{\bar{x}}) \\ \forall x \in [a,b] \end{cases}$$

$$m = \min_{[a,b]} f(x) = f(\bar{x}) \; ; \; M = \max_{[a,b]} f(x) = f(\bar{\bar{x}})$$