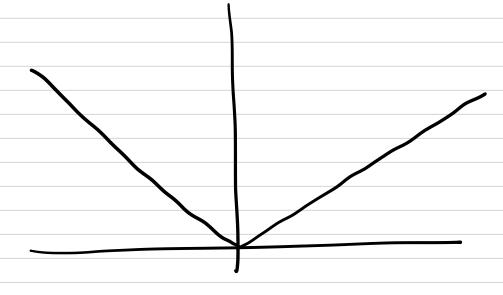
Swanand Khare

Maths (1)

Cecture	1

functions of 1-variable
$$f(x) = |x|$$



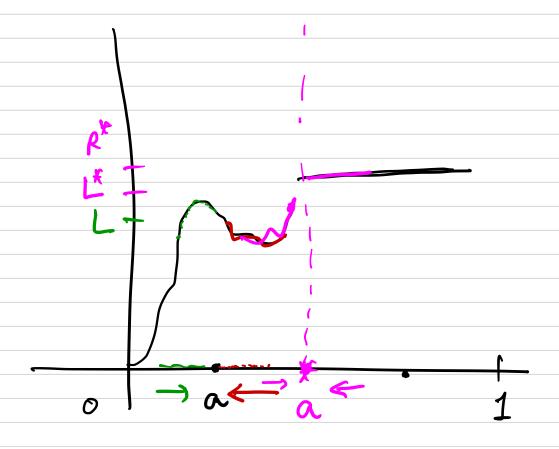
$$\{(x, f(z)) \mid x \in D\} \qquad f: D \to \mathbb{R}$$

$$\subseteq \mathbb{R}^2$$

Limit

Continuity

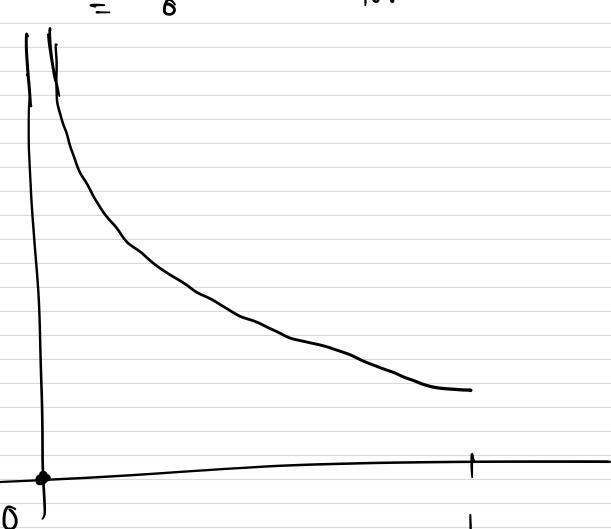
Differentiability/being able to compute derivative of a function LHL RHL



f: [0,1] - IR



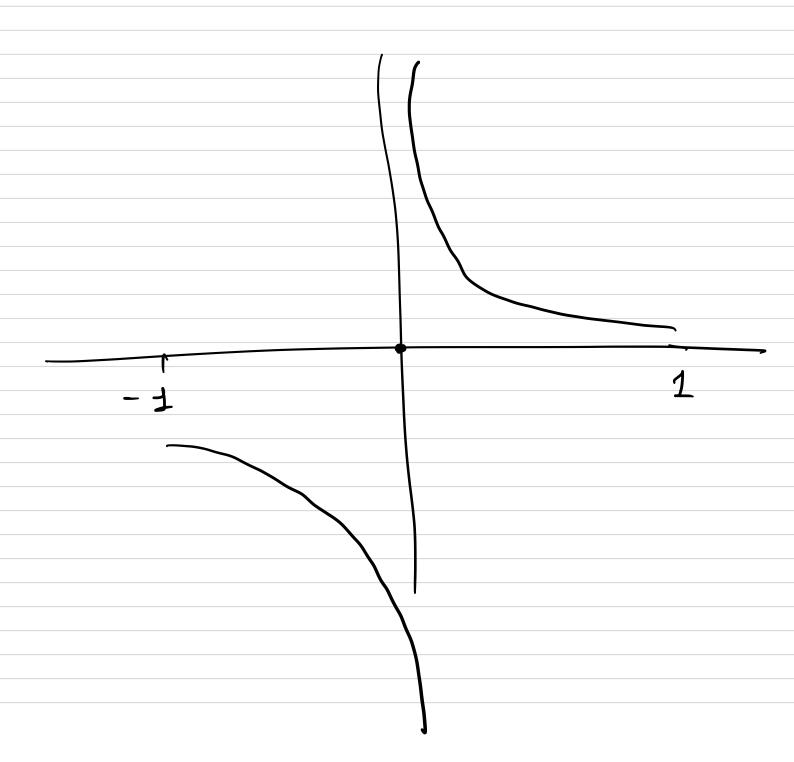
$$f(x) = \frac{1}{2}$$

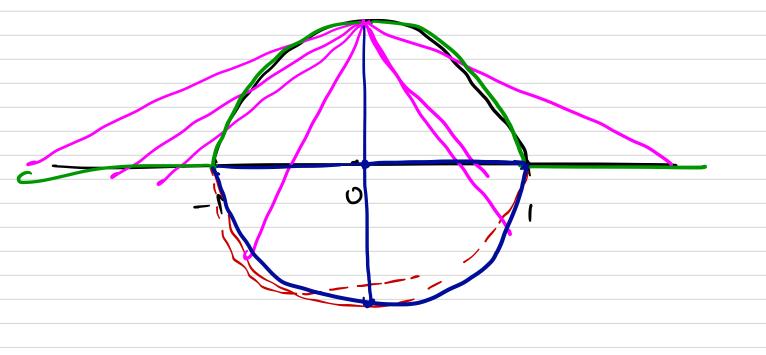


$$f:(0,1) \longrightarrow \mathbb{R}$$

$$f(x) = \frac{1}{x}$$

$$f(x) = \frac{1}{x}$$





$$f: [a,b] \longrightarrow \mathbb{R}$$

$$f: (\dot{\alpha}, b) \longrightarrow \mathbb{R}$$