

## LIMITS OF FUNCTIONS

**Definition 17.1:** Let  $S$  be a subset of  $\mathbb{R}$ . Let  $f : S \rightarrow \mathbb{R}$  be a function, and  $a$  and  $L$  be real numbers. We say that *the limit of  $f$  as  $x$  approaches  $a$  is  $L$*  provided

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