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0.1 Limits of real functions

0.1.1 Limit operator

For a function $f(x)$,

$$\lim_{x \rightarrow a} f(x) = L$$

We can say that L is the limit if:

$$\forall \epsilon > 0 \exists \delta > 0 \forall x [0 < |x - p| < \delta \rightarrow |f(x) - L| < \epsilon]$$