

SATPREP

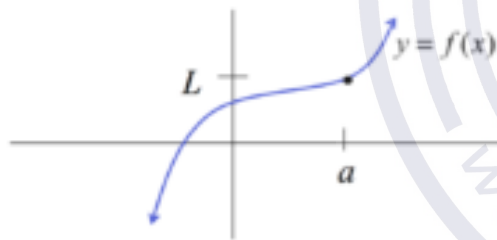
Limit And Continuity

Limit

We say that the limit of $f(x)$ as x approaches a is L and write

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

if the values of $f(x)$ approach L as x approaches a .



Continuity

A function f is *continuous* at the point $x = a$ if the following are true:

- i) $f(a)$ is defined
- ii) $\lim_{x \rightarrow a} f(x)$ exists

