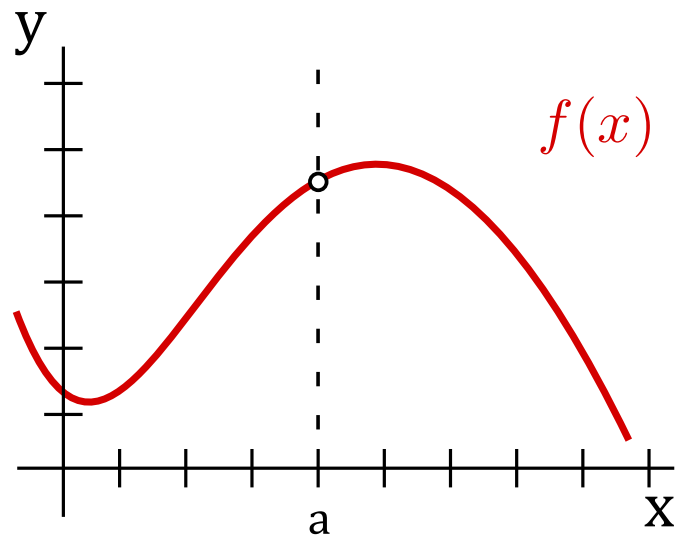


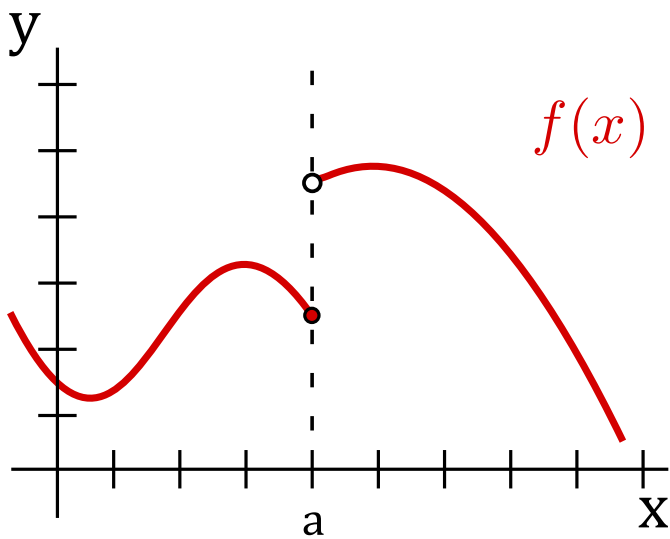
continuous at $x = a$

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



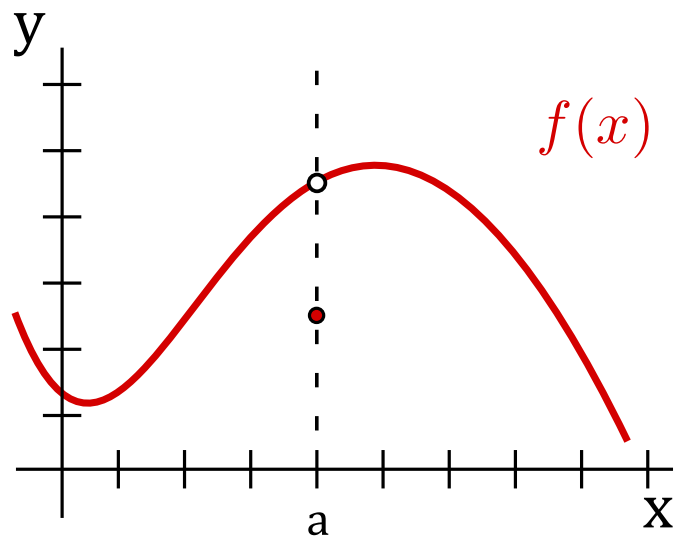
$f(a)$ not defined

(i) fails to hold



$\lim_{x \rightarrow a} f(x)$ does not exist

(ii) fails to hold



$\lim_{x \rightarrow a} f(x) \neq f(a)$

(iii) fails to hold