

## 2. Continuity from Left and Right.

Function  $f(x)$  is said to be

(1) Left continuous at  $x = a$  if  $\lim_{x \rightarrow a-0} f(x) = f(a)$

(2) Right continuous at  $x = a$  if  $\text{Lim}_{x \rightarrow a+0} f(x) = f(a)$ .

Thus a function  $f(x)$  is continuous at a point  $x = a$  if it is left continuous as well as right continuous at  $x = a$ .