

1 | Continuity

f is continuous at c if $\lim_{x \rightarrow c} f(x) = f(c)$

f is continuous on I if f is continuous at c for all values of c in I . If f is continuous from the interval $(-\infty, \infty)$ f is continuous.

f is continuous on $[a, b]$ if f is continuous on (a, b) - $\lim_{x \rightarrow a^+} f(x) = f(a)$ - $\lim_{x \rightarrow b^-} f(x) = f(b)$