

Critical Value

When $f(c)$ is defined, if $f'(c) = 0$ or f' is undefined at $x = c$, the values of the x – coordinate at those points are called critical values.

*If $f(x)$ has a relative extrema at $x = c$, then c is a critical value of f .

Definition of a Critical Number:

Let f be defined at c .

If $f'(c) = 0$ or f' is is undefined at c ,
then c is a critical number of f .