

Definition of Relative Extrema

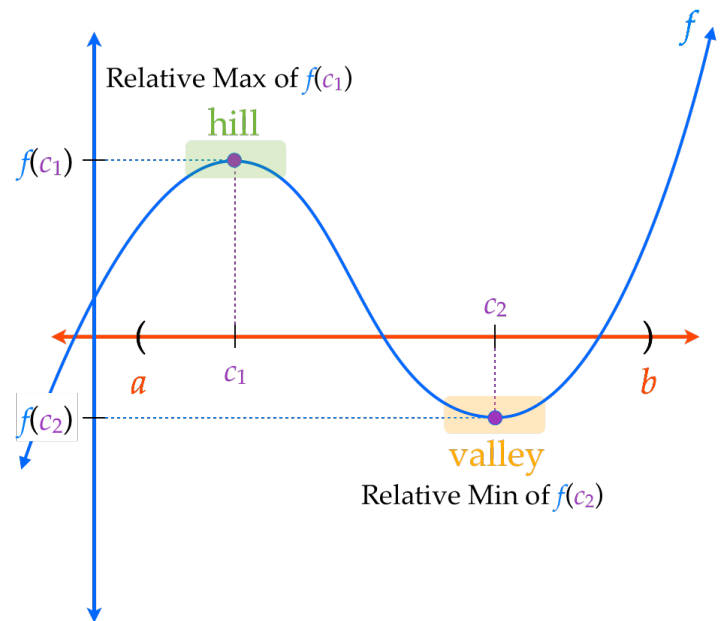
Given an open interval containing c ...

If $f(c)$ is a maximum, then $f(c)$ is called a relative maximum.

(occur on the “hills” of function)

If $f(c)$ is a minimum, then $f(c)$ is called a relative minimum.

(occur in the “valleys” of function)



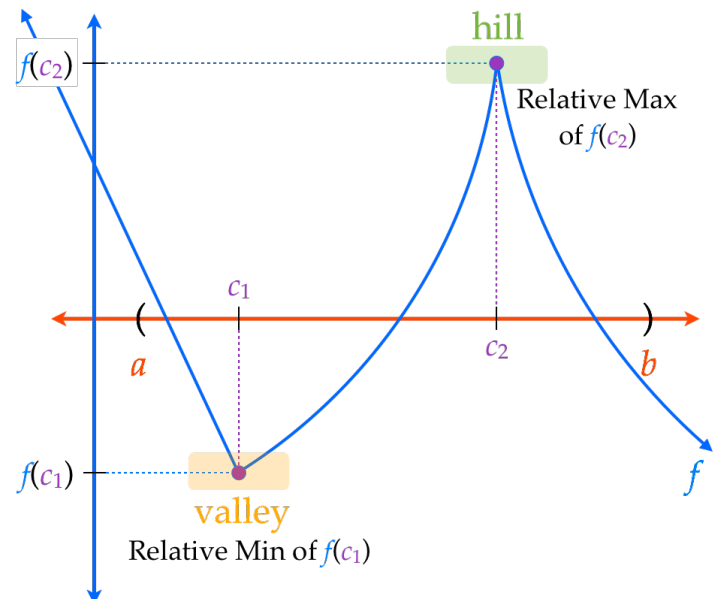
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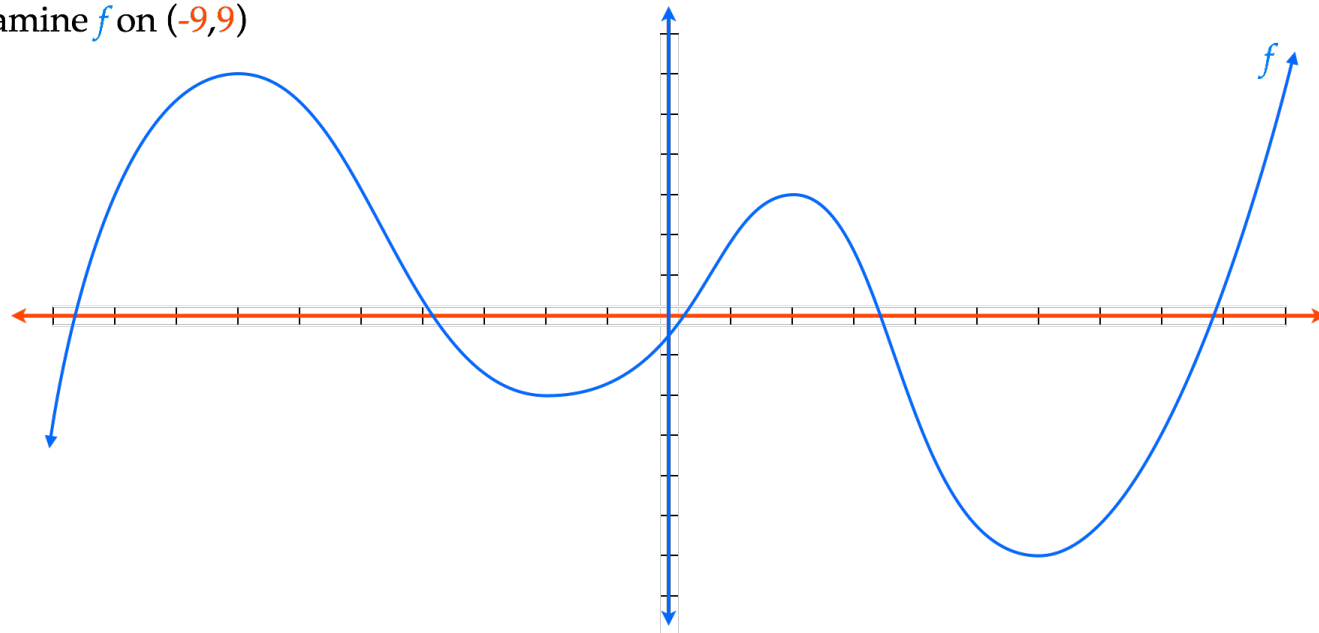
(occur on the “hills” of function)

If $f(c)$ is a minimum, then $f(c)$ is called a relative minimum.

(occur in the “valleys” of function)



Examine f on $(-9,9)$



Examine $\cos x$ on $(-5\pi, 5\pi)$

