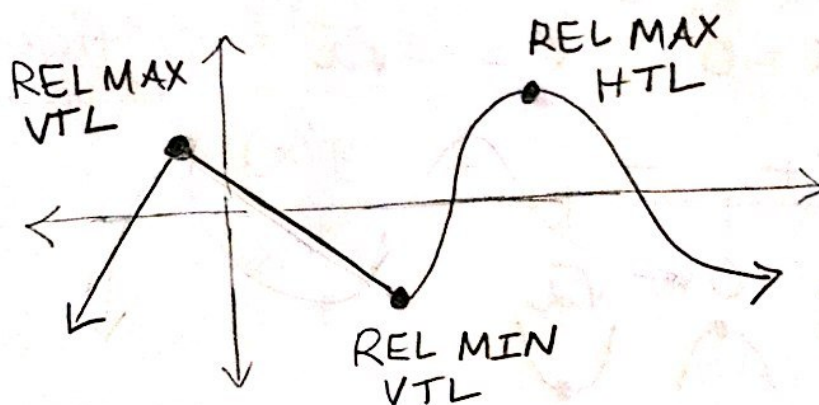


These may occur at hills or valleys.

Smooth \rightarrow horizontal tangent (deriv = 0)

Sharp \rightarrow vertical tangent
(not differentiable at that point)



* Critical Numbers:

Let f be defined at c .

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

★ Relative extrema only occur at critical numbers
(slope = 0 or undefined)