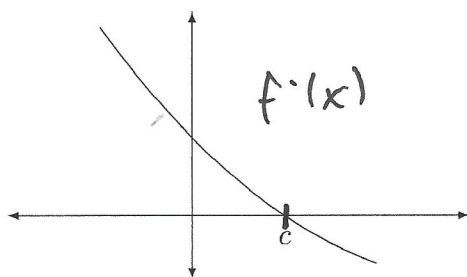


For $f(x)$ with derivative as in figure:



(a) Is $f(c)$ a local min or max?

max

(b) Is $f(x)$ a decreasing function?

no, $f'(x) > 0$ sometimes