Writing Assignment 9

Due Monday, April 19, 11:59 PM

Draw or construct an example showing why the assumption that f is continuous is *necessary* in the intermediate value theorem. (That is, give an example of a function f that is defined but not continuous on $[a, b]$, and for which there is no $c \in [a, b]$ for which $f(c) = N$ for some $N \in [f(a), f(b)]$.)