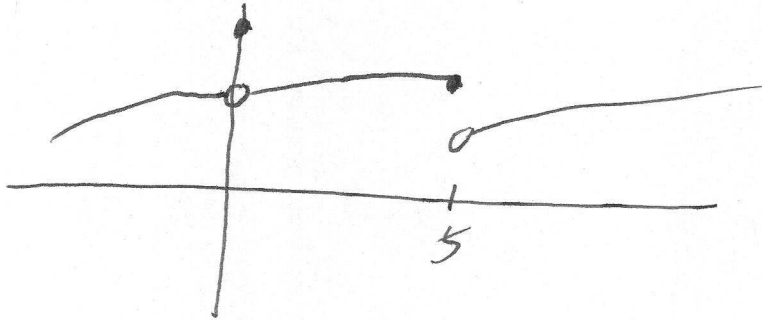


Name:

SOLUTIONS

Quiz #2 - September 17, 2007

1. Sketch the graph of a function which has a jump discontinuity at  $x = 5$ , is continuous from the left at  $x = 5$  and has a removable discontinuity at  $x = 0$ .



2. State the intermediate value theorem. Be sure to include any necessary hypotheses.

Let  $f(x)$  be continuous on  $[a, b]$ . Let  $N$  be between  $f(a)$  &  $f(b)$ . Then there exists  $c$  in  $(a, b)$  such that  $f(c) = N$ .

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