

Quiz 1 Math 135 Winter 2016

Name:

Student Number:

Suppose f is a real-valued function on the interval $[a, b]$ and suppose $a < c < b$. Suppose also that for **every** sequence of real numbers $c_n \in [a, b]$ satisfying

$$\lim_{n \rightarrow \infty} c_n = c$$

we have that

$$\lim_{n \rightarrow \infty} f(c_n) = f(c).$$

Prove that f is continuous at c .