

Quiz 6 MA341
Spring 2018

Name _____

Let $f : \mathbb{R} \rightarrow \mathbb{R}$.

(a) What does it mean for f to be continuous at c ?

(b) Suppose that f is continuous at a given $c \in \mathbb{R}$. Show that there is a $\delta > 0$ and a constant $M > 0$ so that $|f(x)| \leq M$ for all x that satisfy $|x - c| < \delta$.
(Hint: $\epsilon = 1$ will do just fine)