Advanced Calculus II, Fall 2022, Worksheet for Lecture 4

Instructor: Danny Krashen

Name: _____

Discussing the problems with other people is encouraged,
but you must write up your own work independently!

1. Show that if $r \geq 0$ is a real number such that for all real numbers $\epsilon > 0$, we have $r \leq \epsilon$, then $r = 0$.

   Prove this (hint: use contradiction – what if $r \neq 0$?)