## MATH 241: ANALYSIS IN SEVERAL REAL VARIABLES I QUICK RESPONSE \#3

Name:

Problem 1. Label each of these sets as open, closed, neither, or both.
(a) $\mathbb{Q}$

> open closed neither both
(b) $\{x \in \mathbb{R}: x>0\}$
open closed neither both
(c) $\mathbb{Z}$
open closed neither both
(d) $\{1 /(n+1): n \in \mathbb{N}\}$
open closed neither both
(e) $\bigcap_{n=1}^{\infty}(0,1 / n)$
open closed neither both

