MATH 150A-QUIZ 4, WINTER 2020

Name: _____

1. State the definitions of *limit point, limit set, closure, and closed set.*

2. Consider the set of integers $\mathbb{Z}$. Show that $\mathbb{Z}$ is closed by showing that $\mathbb{Z}' = \varnothing$. Does it violate the statement of Bozalno Weistrass Theorem (for set): *for every bounded infinite set $S \subset \mathbb{R}$, there is a limit point of S.* Why?