Math 5710

Friday, 6/26/20

Quiz 05

1. What is your name?

Brock Francom

2. Write two paragraphs that explain why the following proposition is true:

 $\exists ! \ A \in \{ \text{ sets } \} \ni ( \not\exists B \in \{ \text{ sets } \} \ni (A \sim B \land A \neq B))$ 

There uniquely existance A which is a subat of all sets such that there does not exist set B which is a subset of all sets such that A is equivalent to B and A does not equal B.

Since you cannot have a set with cardinality <0, we don't need to thing about those, Say we pick a set with cardinality = 1. There are an infinate number of sets we could pick. The same is true for all sets with cardinality 70. This leaves only the set with cardinality =0.

That set is \$. No other set has coordinality = 0 that is not the empty set, and therefore the statement is true.

3. Smile.