## Discrete Math

Quiz 0

## Name:

You have 10 minutes to complete this quiz. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be complete, legible and correct. Show your work, and give adequate explanations.

1. Rewrite these axioms of set theory using English words instead of mathematical symbols.
(a) $(\exists x)((\forall y)(y \notin x))$
(b) $(\forall x)(\forall y)((x=y) \leftrightarrow \forall z((z \in x) \leftrightarrow(z \in y)))$
2. Complete the following definition of "subset":
$x$ is a subset of $y$ if $\qquad$ .
