

Math 2283 - Introduction to Logic

Quiz #8 - 2015.09.25 Solutions

The following are the definitions of relations between two sets K and L , determine which relations:

1. $\mathbf{A}_{x} (x \in K) \leftrightarrow (\sim x \in L)$

This is the definition of K and L being disjoint.

2. $\mathbf{E}_{x,y} [(x \in K) \wedge (x \in L)] \wedge \{[(y \in K) \wedge (\sim y \in L)] \vee [(y \in L) \wedge (\sim y \in K)]\}$

This is the definition of K and L overlapping.