Math 2283 - Introduction to Logic

Quiz #8 - 2010.10.01

Name:	

Recall, if you will, that we were able to define the relation of a class K being a *subclass* of the class L ($K \subset L$) in terms of elements of the universe of discourse:

$$K \subset L \leftrightarrow \mathop{A}_{x}(x \in K \to x \in L)$$

Let us use the symbol \diamondsuit to represent the relation of being *disjoint*. Construct a definition of the classes K and L being disjoint $(K\diamondsuit L)$ in terms of the elements of the universe of discourse:

$$K \diamondsuit L \leftrightarrow \underset{x}{A} \left(\right)$$