

translation

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"For all sets A and B, there is a function f that maps A onto B."

I'm supposed to translate that into logic symbols. My question is, do I treat A and B as a single object? Or do I rephrase as:

For all sets A and for all sets B, there is a function f that maps A onto B.

Then my translation: Let U denote the universal quantifier and \exists denote the existential quantifier:

$(\forall A \text{ and } \forall B) \exists f, f(A) \rightarrow B$

Is that correct?

One thing that makes me wonder if I'm not suppose to have the "and" is that this section on quantifiers comes before the section on the logical operators, such as and. So I'm wondering if I should be using it yet.