

Re: difference

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Sorry, I am new to logical induction, a little problem popped up as follows,
A differs from B because $A = \sim B$
if A, B are sets, some members in A are not in B then, can conclusion $A = \sim B$ is incorrect, what is the relation of A and B ?
Thanks

While the identity, $A = A$ is certainly the same as saying $A = \sim B$, there is insufficient information to conclude that some elements of A are not in B. Suppose, for example that set A is the set of all car models beginning with the letter K, and B the set of all car models beginning with the letter L. Neither set has any element in common—the sets are said to be disjoint. So if you want to ask a question about the relation between any two sets, you have be precise as to what you mean. You need to know the fundamentals of set theory before you can talk about manipulating the symbols.

Tom

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