

# First portion of hints for Assignment 1

## CSC165, Summer 2005

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1. In order for your predicates to “mean the same thing” as English text, and yet be different predicates, it must be possible to interpret the English text in different ways. Play around with how you use the “and” and “or” connectives.
2. We haven’t seen the existential quantifier “ $\exists$ ” yet, but we will soon. Think about the questions that involve the universal quantifier “ $\forall$ ” and how you determine whether a universally quantified statement is true or false.
3. Think about the ONLY way to make an implication false. Does that leave several ways to make an implication true? We will soon deal with nested implications.
4. Parts (a)–(d) involve universal quantification, so last week’s lecture notes should be relevant. The word “Not” in part (e) means decide which value from {true, false} is the result of the rest of the sentence, and then reverse that value.