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Section 1.1 Propositional Logic

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CHAPTER 1 The Foundations: Logic and Proofs

SECTION 1.1 Propositional Logic

2. Propositions must have clearly defined truth values, so a proposition must be a declarative sentence with no free variables.
- a) This is not a proposition; it's a command.
 - b) This is not a proposition; it's a question.
 - c) This is a proposition that is false, so anyone who has been to Mainz knows.
 - d) This is not a proposition; its truth value depends on the value of x .
 - e) This is a proposition that is false.
 - f) This is not a proposition; its truth value depends on the value of n .
4. a) I did not buy a lottery ticket this week.
b) Either I bought a lottery ticket this week or [in the inclusive sense] I won the million-dollar jackpot on Friday.
c) If I bought a lottery ticket this week, then I won the million-dollar jackpot on Friday.
d) I bought a lottery ticket this week and I won the million-dollar jackpot on Friday.
e) I bought a lottery ticket this week if and only if I won the million-dollar jackpot on Friday.
f) If I did not buy a lottery ticket this week, then I did not win the million-dollar jackpot on Friday.
g) I did not buy a lottery ticket this week, and I did not win the million-dollar jackpot on Friday.
h) Either I did not buy a lottery ticket this week, or else I did buy one and won the million-dollar jackpot on Friday.
6. a) The election is not decided.
b) The election is decided, or the votes have been counted.
c) The election is not decided, and the votes have been counted.
d) If the votes have been counted, then the election is decided.
e) If the votes have not been counted, then the election is not decided.
f) If the election is not decided, then the votes have not been counted.
g) The election is decided if and only if the votes have been counted.
h) Either the votes have not been counted, or else the election is not decided and the votes have been counted.
Note that we were able to interpret the parentheses by using the words either and else.
8. a) If you have the flu, then you miss the final exam.
b) You do not miss the final exam if and only if you pass the course.
c) If you miss the final exam, then you do not pass the course.
d) You have the flu, or miss the final exam, or pass the course.
e) It is either the case that if you have the flu then you do not pass the course or the case that if you miss the final exam then you do not pass the course (or both, if it is understood).
f) Either you have the flu and miss the final exam, or you do not miss the final exam and do pass the course.

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