PH133 Logic: Extra Seminars

Answer these questions on paper, do not use Fitch &c.

It is not required that you can answer the questions immediately. Think about them carefully about them over several hours if you need to.

1. Should I attend the extra seminar on proofs?

(a) Can you give a counterexample to the following argument?

(b) Can you prove the following argument?

If you answered no to (a) or (b), you should attend the extra seminar on proofs.

2. Should I attend the extra seminar on translations?

(a) Can you translate $\neg \exists x$ BetterSinger(x,a) into English using the following interpretation?

a : Mia BetterSinger(x,y) : x is a better singer than y

(b) Can you translate 'Some members of Hezbollah are members of the Talliban' into FOL (Logiya) using the following interpretation?

Taliban(x): x is a member of the Taliban Hezbollah(x): x is a member of Hezbollah

If you answered no to (a) or (b), you should attend the extra seminar on translations.

3. Should I attend the extra session on truth tables?

- (a) Do you know the truth table for $A \land B$ and the truth table for $A \lor B$?
- (b) Can you construct the truth table for $A \land (\neg B \lor C)$?

If you answered yes to (a) and no to (b), you should attend the extra seminar on truth tables.