

Axiomatic Set Theory

Sheet 0 — TT21

tl;dr: Do Section A carefully without looking at the solutions in a separate document but don't hand in. Do Section B and hand in solutions, answers will be published after all classes. Look at Section C, don't hand solutions in.

This year there is the new format of problem sheets. To reiterate (and clarify) my understanding, here is a short guide: Everything in section A and section B is considered examinable and I will think of it as 'seen' or 'bookwork'.

You need to answer these questions fully and be prepared to answer them formally. However, unless specifically instructed to do so, you don't actually need to answer them formally (at the risk of you missing important bits of the argument) and shouldn't expect the class tutor to answer them fully formally unless you ask for it.

I will provide answers for section A in a separate problem sheet (published at the beginning of week $2n$ for Problem Sheet n) but urge you to first answer the questions yourself and only then consult my answer. You should not hand in your solutions for the class but please raise anything you are not sure about (e.g. if your proof differs significantly from the one posted and you're not sure it is correct). Unless you specifically ask for clarifications, I do not expect tutors to go over these questions in class.

I will provide answers for section B of Problem Sheet n at the end of week $2n + 1$.

I don't think every question from section B needs to be fully covered in the class, especially if almost everyone got it more or less correct and the tutor/TA feel that the comments on your work are sufficient. Again, if you feel differently, please raise this in the class or afterwards.

I hope you do some of the questions in Section C but for examination purposes will not assume that you have seen any of them. Having said this, some of these are examples of the kind of questions I consider suitable for exams, either as the 'application of learned material' or 'new, challenging material'.

I hope that together with the class tutor you can make a choice which ones to discuss during the class. If your favourite question is not amongst these, please feel free to chat to me after a lecture. I will typically not provide typed up answers to these questions.

In order for you to get maximal benefit from the classes, you should at least read and understand these questions. Generally sketch proofs should be sufficient here but this depends on your level of confidence.

At this stage I reserve the right to move questions from one section to another depending on the feedback from the first few sheets.