## Some comments about the final exam

- The exam consists of 8 problems; only your best 6 answers will be taken into account.
- Roughly speaking, the problems correspond to a 3+3+2 distribution of the material we covered during the three terms; we spent 9+9+6 weeks on the corresponding topics.
- About 10-20% of the exam focuses on definitions and statements of theorems; you need not (and should not) provide definitions, unless you are asked to do so.
- The rest of the exam is centered around the homework problems as well as the results we proved in class; you will not be asked to reproduce proofs that are fairly long (Banach's theorem and Arzela-Ascoli, for instance).
- Convince yourselves that "being open" and "being closed" are not exact opposites of one another. I saw this mistake in 11 out of 13 scholarship exams. If you have to show that a set is open, do not try to show that it's not closed.
- The very first homework assignment was merely for review; you may safely ignore it.
- Problems 27, 54 and 55 may be safely ignored, too.
- Good luck with your studying!