

Math 3354. Fall 2010. Section 2. Information about the final exam.

The final exam will be given on Thursday, December 16th, 9am-12:10pm in our regular classroom (Cabell 431). It will contain 7 or 8 regular problems and possibly (but not very likely) a bonus problem. The scoring system will be somewhat similar to, but different from, the one on the second midterm – the lowest of your scores will be counted with reduced weight (e.g. $1/2$ or $2/3$) and added to the sum of the other scores.

The exam will be cumulative, but the distribution of material over different parts of the semester will not be uniform. More than 50% of the exam will be based on what we covered in Lectures 19-25, and there will be little emphasis on the material covered before the first midterm (which does NOT mean that you should ignore it). More precisely, you should expect

- (i) 1 problem on the material covered before the first midterm
- (ii) 2 or 3 problems on the material covered between the first and second midterms. One topic from this part that will definitely be represented is isomorphisms of groups (since it was missing from the second midterm)
- (iii) 1 problem on permutation groups (with the emphasis on conjugation and even/odd permutations)
- (iv) 1 problem on normal subgroups
- (v) 1 problem on cosets and quotient groups
- (vi) 1 problem on rings and ideals.

Quotient rings will not be represented in the regular part of the final, but they may appear in the bonus problem (if there is one).