

FINAL EXAM DETAILS

The final exam in MATH 631 is on Friday, December 11 from 11:15 - 1:45 pm over Zoom. (I am working in a half hour grace period.) It will cover Chapters 0 - 10 in our textbook, excluding of course those sections we skipped. Emphasis will be on those topics we emphasized in class, namely:

\mathbb{Z} -linear combinations, gcd, examples of groups, cyclic groups, order of elements in groups, Isomorphism Theorems, group actions, cyclic groups, kernels, normal subgroups, normalizers, centralizers, quotient groups, Lagrange's theorem, Cauchy's theorem, Fundamental Theorem of Finitely-Generated Abelian groups, Orbit-Stabilizer theorem, group actions, Sylow's theorems, S_n and A_n and conjugacy classes, rings, ideals, PIDs, EDs, UFDs, prime and irreducible elements, quotient fields, Chinese Remainder theorem, Polynomial rings, Irreducibility criterion for polynomials, constructing fields, R-module basics, Examples and Examples and Examples, ...

The best way to study is to rework the two midterms, do Jill Faudree's old exams, and look over old homeworks. Ideally, this task will make ideas and concepts gel. You've worked hard and learned a lot this term!