REVIEW FOR FINAL  
MATH 114

What do you have to know for the final.

Groups. Definitions of a group, a subgroup, a normal subgroups and a quotient. Lagrange’s theorem, Isomorphism theorems. Action of $G$ on a set $X$, Sylow theorems, solvable and simple groups. Fundamental theorem of abelian groups.

Polynomials. Irreducible polynomials, division algorithm, factorization theorem. Eisenstein criterion and other ways to check if a polynomial is irreducible.


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