Algebra I

Schedule

Date	Title & Note	Assignments
April 12	Lecture 1. Groups	Read 1, Ex. 1.2, 1.3, 1.22
April 14	Lecture 2. Examples + Recitation	Read 2, Ex. 2.3 , $2.8 + 3$ others
April 16	Recitation Ex. 2 (Volunteers)	Ex. 2.24, 2.25, 2.35, 2.36, 2.37
April 19	Lecture 3. Finite Groups; Subgroups	Read 3, Ex. 3.1 , $3.22 + 3$ others
April 21	Recitation Ex. 3 (Volunteers)	Ex. 3.8, 3.12, 3.16, 3.26, (3.30 or 3.34)
April 23	Lecture 4. Cyclic Groups	Read 4, Ex. 4.1 , $4.9 + 3$ others
April 26	Recitation Ex. 4 (Volunteers)	T/F and 1, 4, 12, 22, 34 (see p.91-4)
April 28	Lecture 5. Permutation Groups	Read 5, Ex. 5.2 , $5.4 + 3$ others
April 30	Recitation Ex. 5 (Volunteers)	5 in Ex.5.8, 5.19, 5.25, 5.27, 5.48, 5.52
May 7	Lecture 6. Isomorphisms	Read 6, Ex. 6.4 , $6.5 + 3$ others
May 10	Recitation Ex. 6 (Volunteers)	Ex. 6.17, 6.32, 6.34, 6.37, 6.40
May 12	Lecture 7. Cosets and Lagrange's Theorem	Read 7, Ex. $7.1, 7.3 + 3$ others
May 17	Recitation Ex. 7 (Volunteers)	Ex. 7.21, 7.22, 7.35, 7.40, 7.48
May 19	Lecture 8. External Direct Products	Read 8, Ex. $8.2, 8.9 + 3$ others
May 21	Recitation Ex. 8 (Volunteers)	T/F and Ex. 6, 7, 18. 19, 32 (see p.174–7)
May 24	Lecture 9. Normal Subgroups and Factor Groups	Read 9, Ex. 9.5 , $9.15 + 3$ odds
May 26	Recitation of Odd Numbered Problems of Ex. 9	Read 9, Ex. 9.4 , $9.8 + 3$ evens
May 28	Recitation of Even Numbered Problems of Ex. 9	Ex. 9.60, 63, 64, 65, 66
May 31	Lecture 10. Group Homomorphisms	Read 10, Ex. 10.5 , $10.7 + 3$ odds
June 2	Recitation of Odd Numbered Problems of Ex. 10	Read 10, Ex. 10.16 , $10.20 + 3$ evens
June 4	Recitation of Even Numbered Problems of Ex. 10	Ex. 10.36, 39, 55, 57, 59
June 7	Lecture 11. Fund. Thm of Finite Abelian Groups	Read 11, Ex. 11.3, $11.5 + 3$ odds
June 9	Recitation of Odd Numbered Problems of Ex. 11	Read 11, Ex. 11.8 , $11.10 + 3$ evens
June 11	Recitation of Even Numbered Problems of Ex. 11	T/Fand 9, 14, 15, 19, 41 (see p.230-3)
June 14	Lecture 12. Sylow Theorems	Read 24, Ex. 24.5, 24.7 and 3 others
June 16	Recitation	Preparation of Final Exam

All assignments are due next class.

Algebra I final will be given during the term exam week. The schedule above is subject to change.

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Grading Policy Grade will be decided by the performance on the following: Home Work (35%), Class Participation by Solving Problems (15%), and Final Exam (50%).

Home Page http://subsite.icu.ac.jp/people/hsuzuki/science/class/algebra1/index-j.html Schedule, references, old quizzes, old finals, old midterms and their solutions, and much more. Author's Home Page: http://www.d.umn.edu/~jgallian/ Supporting documents, True/False Quizzes, software and much more.

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