

**Modern Algebra**  
**MATH 325W – Spring 2015**

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Monday:	Chapter 23: Normal Subgroups	
Wednesday:	Chapter 25,27: Galois Groups and Radical Extensions	<b>Week 14</b>
Friday, Monday:	Chapter 26,28: Solvable Groups and THE END	

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FINAL PAPER

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Please read this carefully! The final project is to be done with your current partner. You may use your class notes and the book, but absolutely **no internet searches** for the mathematics in this paper! Feel free to google-up some L<sup>A</sup>T<sub>E</sub>X though. The final component of the paper is a self-evaluation of your contribution. I am looking for (1) some balance of workload and (2) significant collaboration. If either of these become a struggle, talk with me in advance because they will affect your grade.

There is plenty to do, so start early. Some components of the paper will be due in advance; see the writing assignment below. Your final draft should be printed out; I want a paper copy to grade.

DEADLINES

Preferred<sup>1</sup> - **Tuesday, May 12 9:00AM**

Regular<sup>2</sup> - **Thursday, May 14 9:00AM**

**Getting set up**

- (1) **Team Member 1:** Go here to get the “Modern Algebra Final Paper” L<sup>A</sup>T<sub>E</sub>X template:  
<https://www.sharelatex.com/project/55417f38356dbfd737790302>
- (2) **Team Member 1:** Click on the menu icon (upper-left corner - 3 horizontal lines); select “Copy Project”
- (3) **Team Member 1:** When prompted for a name, choose something like “Modern Algebra Final Paper - ⟨last names of you and your partner⟩” and click “Copy”
- (4) **Team Member 1:** When this completes you will be back in your own workspace (instead of mine).
- (5) **Team Member 1:** Click on the share icon (upper-right - 5 headed beast). Enter your team member’s email address, make sure they “can edit” it, and “Share.”

WRITING ASSIGNMENTS

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On writing assignments, part of your grade will reflect the quality of your *style*. Style includes everything from the basic mechanics of writing (complete, grammatically correct sentences with capitalization and proper punctuation) to the conventions of writing mathematics developed in Linear Algebra.

**Writing Assignment #13**

**due Friday, May 08**

Final Paper: Solve and write-up **everything from Example 3.2 through Proposition 3.8** in your final paper. Print out the relevant pages, and turn them in to the usual folder. I will grade everything for “completeness,” and I will select 2–3 problems to grade thoroughly.

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<sup>1</sup>All papers received by the preferred deadline will receive some, albeit small, amount of extra credit.

<sup>2</sup>All papers turned in at the regular deadline should be brought to me in our final exam room: BEN 207