

Final Exam Syllabus, Practice Exercises

“*Supplements*” are on the course web page.

1.1 See *Supplement to Section 1.1*. **Exercises from 1.1:** 1(a)–(c), 6(d)–(f), 7, 9.

1.2 Skip **Generators and Relations** through the rest of the section.

1.3 **Exercises from 1.3:** 6, 7.

1.4 **Exercises from 1.4:** 2, 4, 8, 11.

1.5 **Exercises from 1.5:** 1, 2.

1.6 **Exercises from 1.6:** 1, 2, 4, 10, 18, 19.

1.7 **Exercises from 1.7:** 3, 8, 11, 17.

2.1 See *Supplement to Section 2.1*. **Exercises from 2.1:** 2(a), 6, 10.

2.2 **Exercises from 2.2:** 3, 6, 14.

2.3 See *Supplement to Section 2.3*. **Exercises from 2.3:** 1, 2, 10, 13, 24.

2.4 **Exercises from 2.4:** 2, 3, 6, 14.

2.5 **Exercises from 2.5:** 6(c), 9.

3.1 See *Supplement to Section 3.1*. **Exercises from 3.1:** 1, 6, 8, 11, 14(a)(b), 22, 28, 30, 35.

3.2 See *Supplement to Section 3.2*. **Exercises from 3.2:** 1, 4, 6, 7, 8, 18.

3.3 See *Supplement to Section 3.3*. **Exercises from 3.3:** 7.

3.4 Skip

3.5 Know results. **Exercises from 3.5:** 1, 2, 9, 15.

- 4.1 See *Supplement to Sections 4.1–4.3*. **Exercises from 4.1:** 1, 2, 7, 9.
- 4.2 **Exercises from 4.2:** 8, 12, 13.
- 4.3 Skip **Conjugacy in S_n** through rest of section. **Exercises from 4.3:** 5, 6, 10, 13, 25, 30.
- 4.4 Skip **Proposition 17** through the rest of the section. **Exercises from 4.4:** 1, 6, 7, 13.
- 4.5 Skip **Examples**, except the one on groups of order pq . **Exercises from 4.5:** 1, 6, 13, 15, 30.
- 4.6 See *Supplement to Section 4.6*.
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- 5.1 **Exercises from 5.1:** 1, 4, 18.
- 5.2 **Exercises from 5.2:** 1(a)(e), 2(a)(c), 3(a)(c), 6, 9.
- 5.3 Skip section.
- 5.4 Skip **Proposition 8** and **Examples** of the section. **Exercises from 5.4:** 1, 2, 4, 5, 11, 15, 20.
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- 6.1 Know definitions only. **Exercises from 76.1:** 1, 4, 6, 12 13.
- 6.3 **Exercises from 6.3:** 5, 6. Know results.
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- 7.1 **Exercises from 7.1:** 2, 4, 5, 7, 9, 14, 15, 21.
- 7.2 See *Supplement to Sections 7.2*. **Exercises from 7.2:** 3, 4, 5, 12.
- 7.3 **Exercises from 7.3:** 1, 5, 6, 11, 12, 15, 19.
- 7.4 **Exercises from 7.4:** 1, 5, 8, 15.
- 7.5 **Exercises from 7.5:** 1–5.
- 7.6 **Exercises from 7.6:** 1–4.
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- 8.1 See *Supplement to Sections 8.1–8.3*. **Exercises from 8.1:** 1–3, 4(a), 6.
- 8.2 Omit **Proposition 9**. **Exercises from 8.2:** 1–3, 7.
- 8.3 Skip **Corollary 16** to end of section. **Exercises from 8.3:** 1, 2.
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9.1 Exercises from 9.1: 4–6, 13.

9.2 Exercises from 9.2: 1–4, 8.

9.3 See *Supplement to Sections 9.3*. Exercises from 9.3: 1–3.

9.4 See *Supplement to Sections 9.4–9.5*. Skip Proposition 11. Exercises from 9.4: 1–5, 7.

9.5 Skip Proposition 16, Corollary 20. Exercises from 9.5: 3, 4, 7.

10.1 Exercises from 10.1: 1–9.

10.2 Exercises from 10.2: 1–3, 8.

10.3 Exercises from 10.3: 1–5.

12.1 Skip
