

Review For the Final—Math 113

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The final is on Thursday, May 4, 2-5pm. It is comprehensive and it covers the following sections: 1-20, 24-30, 32-34. The best way to review for the final is to review the previous tests and quizzes, the homework problems (especially the collected ones), and the examples in the lecture notes (or the textbook). The following is a list of sections that we covered in the lectures. You should at the minimum review the listed homework problems.

- §1. Real numbers. Homework problems (HW): 68, 101.
- §2. Integer exponents. HW: 20, 35.
- §3. Rational exponents. HW: 77, 89.
- §4. Polynomials. HW: 20, 65.
- §5. Factoring. HW: 53, 56.
- §6. Rational expression. HW: 17, 50.
- §7. Linear equation. HW: 34, 71.
- §8. Quadratic equation. HW: 50, 83.
- §9. Miscellaneous equations. HW: 9, 25.
- §10. Linear and absolute value inequalities. HW: 39, 56.
- §11. Nonlinear inequalities. HW: 11, 31.
- §12. Cartesian coordinates. HW: 35, 59.
- §13. Lines. HW: 14, 45.
- §14. Introduction to functions. HW: 29, 56.
- §15. Graphs. HW: 29, 50.
- §16. Quadratic functions. HW: 29, 53.
- §17. Inverse functions. HW: 39, 41.
- §18. Division of polynomials. HW: 5, 29.
- §19. Factors and real zeros of polynomials. HW: 8, 26.
- §20. Graphs of polynomials. HW: 23, 26.
- §24. Exponential functions. HW: 14, 23.
- §25. Logarithmic functions. HW: 29, 35.
- §26. Properties of logarithmic functions. HW: 11, 32.
- §27. Applications. HW: 14, 37.
- §28. Applications involving e . HW: 5, 23.
- §29. Angles. HW: 31, 39.
- §30. Trigonometric functions of angles. HW: 25, 35.
- §32. Definitions and basic identities. HW: 8, 41.
- §33. Proving identities. HW: 11, 26.
- §34. Addition and subtraction formulas. HW: 5, 20.