

MATHEMATICS 501 — FALL 2016

Theory of functions of a real variable I

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HOMework ASSIGNMENT NO. 9, DUE ON FRIDAY, DECEMBER 9

The thirteen problems in this list are all highly recommended¹.

The problems you are asked to hand in are Nos. 3, 7, 5, 11 and 13.

Problem 1. Book, problems 2, page 88

Problem 2. Book, problems 4 and 5, page 88.

Problem 3. Book, problem 6, page 88.

Problem 4. Book, problem 7, page 88.

Problem 5. Book, problem 8, page 92.

Problem 6. Book, problem 9, page 92.

Problem 7. Book, problem 10, page 92.

Problem 8. Book, problem 11, page 92.

Problem 9. Book, problem 12, page 92.

Problem 10. Book, problem 13, page 92.

Problem 11. Book, problem 14, page 92.

Problem 12. Book, problem 15, page 92.

Problem 13. Book, problem 17, page 93.

¹It is hard to give a precise definition of what it means for a problem to be “highly recommended”. But here is a simple necessary condition that you might find helpful: If a problem is highly recommended, then it has a very good chance of showing up as a question in the final exam.