

# MATH 210B: Mathematical Physics

Instructor: Michael Holst

Winter Quarter 2016

Homework Assignment #1

Due Date: NONE (just some suggested problems to look at to complement the lectures)

**Exercise 1.1.** (*The Lebesgue Integral, Measure, Measurable sets and functions*)

- Exercise 2.16(2) in 1st Ed. (2.16(2) in 3rd Ed.)
- Exercise 2.16(3) in 1st Ed. (2.16(3) in 3rd Ed.)
- Exercise 2.16(4) in 1st Ed. (2.16(4) in 3rd Ed.)
- Exercise 2.16(5) in 1st Ed. (2.16(5) in 3rd Ed.)
- Exercise 2.16(12) in 1st Ed. (2.16(14) in 3rd Ed.)
- Exercise 2.16(13) in 1st Ed. (2.16(15) in 3rd Ed.)
- Exercise 2.16(16) in 1st Ed. (2.16(18) in 3rd Ed.)
- Exercise 2.16(17) in 1st Ed. (2.16(19) in 3rd Ed.)
- Exercise 2.16(18) in 1st Ed. (2.16(21) in 3rd Ed.)
- Exercise 2.16(19) in 1st Ed. (2.16(22) in 3rd Ed.)
- Exercise 2.16(21) in 1st Ed. (2.16(24) in 3rd Ed.)
- Exercise 2.16(23) in 1st Ed. (2.16(26) in 3rd Ed.)
- Exercise 2.16(24) in 1st Ed. (2.16(27) in 3rd Ed.)
- Exercise 2.16(31) in 1st Ed. (2.16(33) in 3rd Ed.)
- Exercise 2.16(33) in 1st Ed. (2.16(35) in 3rd Ed.)
- Exercise 2.16(35) in 1st Ed. (2.16(39) in 3rd Ed.)
- Exercise 2.16(36) in 1st Ed. (2.16(40) in 3rd Ed.)