Assignment 1

Coverage: 15.1 in Text.

Exercises: 15.1. No 7, 9, 11, 16, 18, 20, 25, 27, 32, 33, 34.

Submit no. 20, 32, and 34 by Jan 19 (by Gradescope through Blackboard).

Supplementary Problems

This problem is optional.

1. Consider the function g in $\mathbb{R}^2$ defined by $g(x, y) = 1$ whenever x, y are rational numbers and equals to 0 otherwise. Show that g is not integrable in any rectangle.