HOMEWORK 1, DUE FEB 26, 2019

ANALYSIS II

- (1) Suppose f is defined in the square $S = \{(x, y) : 0 \le x \le 1, 0 \le y \le 1\}$ by the formula $f(x, y) = \begin{cases} 1 & \text{if } x \text{ is irrational} \\ 4y^3 & \text{if } x \text{ is rational} \end{cases}$
- (2) Do problem 48 on p 375 from Chapter 5 of the textbook "Real Mathematical Analysis".