Math 10B Homework Assignment (01/05 – 01/12)
Assignment will be collected on 01/19 the next Friday during the class.

Key notions introduced this week:
(1) Integral, multivariable integrals, double integral, iterated integrals;
(2) Positive functions, 2 dimensional regions, 3 dimensional regions, volumes;
(3) Cavalieri’s principle, Cartesian product;
(4) Intervals, rectangle regions, rectangle subregions, Riemann sum and double integral of a general function;
(5) Integrable functions and continuous functions.

Homework problems:
§5.1. 1, 2, 4, 9, 10, 12, 13.
§5.2. 3, 10, 14, 17.