

Homework 1, Math 444-D13

Due date: Jan 23. Submission in pairs. Not all problems will be graded.

- i) Find out what Russel's Antinomie is and find a non-mathematical formulation.
- ii) Show that $(p, q) \sim (r, s)$ iff $ps = qr$ defines an equivalence relation on $\mathbb{Z} \times \mathbb{N}$.
- iii) Page 11 pb 5.
- iv) page 11 pb 12.
- v) page 11 pb 16.