

HW 2, due Monday, January 27, 2014

1. Exercise 1.2.1.
2. Exercise 1.2.2.
3. Exercise 1.2.7.
4. Prove that $\mathcal{R} = \sigma(\{(-\infty, x] : x \in \mathbb{R}\}) = \sigma(\{(-\infty, x] : x \in \mathbb{Q}\})$.
5. Exercise 1.3.1.
6. Exercise 1.3.4.