

HW 1, due Wednesday, January 15, 2014

1. Exercise 1.1.1.
2. Exercise 1.1.2.
3. A σ -algebra \mathcal{F} is said to be **countably generated** if there exists a countable set \mathcal{C} such that $\mathcal{F} = \sigma(\mathcal{C})$. Show that \mathcal{R} is countably generated.
4. Exercise 1.1.5.