Math 445 - David Dumas - Spring 2019

Homework 13

Due Monday, April 29 in class (1:00pm)

- (—) From the textbook: 43.1b, 43.5, 43.9, 45.2
- (P1) Show that the space $\mathscr{C}(\mathbb{R},\mathbb{R})$ with the uniform topology is *not* second countable. (Hint: One way to do this is to find a discrete subspace in bijection with $\{0,1\}^{\mathbb{Z}}$.)