201B Real Analysis Assignment 7

- 1. B-5 #1 (do this one last), 4, 7, 8, 14, 15.
- Prove that there is no function on [0, 1] continuous at rationals and discontinuous at irrationals. Hint: use the oscillation of the function at a point. It is positive if and only if the function is not continuous at the point. Utilise this fact and try to apply the Baire's lemma.