1. **Not to hand in.** Let \( C = \{ I : I \) is an interval\}. Show that \( C \) is a monotone class of subsets of \( \mathbb{R} \) but not a \( \sigma \)-field.

2. If \( \nu \) is a signed measure on \((X, \mathcal{M})\), show that a measurable set \( E \) is \( \nu \)-null iff \( |\nu|(E) = 0 \).

3. p. 88 #3 (b),(c)

4. p. 88 #4

5. p. 88 #7