

Assignments for Week 0

Part A0, due on 21.10.2025. Read the contents of 251021_PartA_Runde_ATase0fTopology.pdf.

- 1 You are used to doing topology on the real line $\mathbb{R}$. Where in Example 3.12 does that topology appear?
- 2 On the real line $\mathbb{R}$, what is an example of an infinite intersection of open sets, that is not open itself?
- 3 Take $X = \{0, 1\}$. List all the different topologies available on X . Which of them are already listed in Example 3.12?
- 4 Write down any question and or comment you have on this text. Was anything interesting, confusing?
- 5 Write down how you feel about what we covered in class this week. Was anything interesting, confusing?
- 6 Write down how much time you worked on reading and answering this questions.

No Part B0 or Part C0.