

# Summer Session Week 7

Homework

August 2021

What do we need to do to prove that  $|A| \leq |B|$ ? Prove  $|\mathbb{R}| \leq |\mathbb{C}|$ . Prove  $|\mathbb{R} \times \mathbb{R}| = |\mathbb{C}|$ . (For fun: it is a fact that  $|\mathbb{R}| = |\mathbb{R}^n|$  for any  $n$ !)