Homework List (updated February 8, 2018)
Our homework basically follows Kac 2016

Homework 1, due Wed Feb 14:
• I.2 (pg 25): 1–4, 7–10
• **Bonus**: Given a set $S$, the group $(\text{Aut}(S), \circ)$ is abelian if and only if $|S| \leq 2$.
• I.4 (pg 45): 2–8
• I.5 (pg 55): 22, 24, 31, 33, 51 <— I ADDED THIS!
• I.6 (pg 66): 4, 17, 19, 21, 28, 32–34
• Prove the following: Suppose $G$ is a cyclic group. Then either $|G| = \infty$ and $G \cong \mathbb{Z}$, or $|G| = n < \infty$ and $G \cong \mathbb{Z}/n\mathbb{Z}$.  

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