# Problems and Comments for Section 10

**Problems**: 10.2, 10.3, 10.6, 10.7, 10.8, 10.9, 10.16

**Comments**: You can skip the part on the class equation.

Hint for 10.16: Define a relation $x \sim y$ iff $y = x$ or $y = x^{-1}$. Prove that this is an equivalence relation. Then look at the number of elements in any class and consider the case where a class has only one element. But don't forget that $|G|$ is odd.