

Here are some problems from chapter 5 to study to prepare for the final.

1. §5.1 problems 13, 14, 25, 26, 44, 45, 58
2. §5.2 problems 10, 12, 18, 22, 38, 40, 42
3. §5.3 problems 18, 23, 34, 40, 42
4. §5.4 problems 10, 18, 22, use the binomial theorem to prove that for any $x, y \in \mathbb{Z}$ and any prime p ,
 $(x + y)^p \equiv x^p + y^p \pmod{p}$