

Written homework. Due in writing, at the beginning of class,

Thursday, October 6. 3.55, 3.61, 3.69, 4.3, 4.14.

Warmup exercises. To present in class: 4.1.

Reading assignment. These reading questions cover the beginning of Section 4.3, up through the statement of Theorem 4.38. We should be discussing this on Thursday.

1. What is the difference between 3 and $[3]$. (A fairly open-ended question.)
2. Make the addition and multiplication table (as on the top of p. 155) for $(\text{mod } 6)$.
3. Which of the “Nine Properties” from Section 1.4 do commutative rings **not** satisfy?
4. Many basic properties of commutative rings that are proved at in Section 4.3 have proofs that say “Identical to the proof of . . .” a result in Section 1.4. Are there any results (Propositions and Corollaries) from Section 1.4 that do **not** have an analogue in Section 4.3? (Within Section 4.3, you only need to look at the subsection “Properties of Commutative Rings”).