

CORRECTIONS MADE TO SEMESTER 1 MAS220 NOTES

I have not listed all differences between the final version and earlier versions, mainly those involving actual errors. There are a few extra cross-references and remarks, in addition to the double-spacing and contents page.

- (1) Example 1.8.6, the condition should be $n \geq 3$, not the $n \geq 2$ in the very first version.
- (2) Example 1.8.12, should be $\ker i$, not $\ker f$.
- (3) Section 2.3, in the definition of $R[x]$, " a_1 " should be immediately followed by " x ".
- (4) In Example 3.3.7 and the proof of Lemma 3.3.8, all the $4 \pm i$ should be $2 \pm i$.
- (5) Not an error as such, but I should point out that in the final version of the Semester 1 notes, I have added that Section 1.7, and part of Section 2.10, are optional.
- (6) I swapped Sections 3.6 and 3.7, and parts of the new Section 3.7 are optional. In the proof of what is now Proposition 3.7.1 (old Proposition 3.6.1), I have corrected " $-1 \not\equiv -1 \pmod{p}$ " to " $-1 \not\equiv 1 \pmod{p}$ " (since the double-spaced version first came out).
- (7) I noticed that the original Proposition 3.8.1 was a repeat of Lemma 3.3.8, so I cut it, thus making Section 3.8 a bit shorter.