

Algebra 2 (2012)-Aalborg University

Lecture 2, February 7th

2nd Lecture (A): Tuesday February 7th, 8:15-12:00 at room G5-112.

- 8:15-10:00 Repetition from last lecture (pages 112–116). Lecture: Quotient rings. Prime and maximal ideals. Ring homomorphisms (pages 116–120)
- 10:00-12:00 Work in groups. Exercises from [Lau], 3.6 (page 138): 5, 6, A, 8 (i) to (iii), B, 9, 11, 21, 12, 13, 19, 15, 23 + some exercises from the previous lecture that you did not solved yet.

Exercise A: Check that the two definitions of ideal (in the slides) are equivalent.

Exercise B: Compute the zero divisors and the units of $\mathbb{Z}/12\mathbb{Z}$.

Best regards,

Diego