

Algebra 2 (2014)-Aalborg Universitet

Spiseseddel 3

3. gang (B), onsdag d. 12. februar, 8:15-12:00 i lokale G5-112

- 8:15-10:00 Forelæsning: Repetition + Ring homomorphisms. The unique ring homomorphism from $\mathbb{Z}$. Binomial formula in prime characteristic (sider 119–123).

- 10:00-12:00 Beviser og opgaveregning:

Beviser: Theorem 3.1.11, Proposition 3.2.2, Proposition 3.2.6, Proposition 3.2.7.

Opgaveregning [Lau], 3.6 (side 138): 11, A, 19, 13, 18, 15, 23 + some exercises from the previous lectures that you did not solved yet.

Exercise A: Check that

$$\begin{aligned}\varphi : \mathbb{Z}/6\mathbb{Z} &\rightarrow \mathbb{Z}/6\mathbb{Z} \\ [x] &\mapsto [3][x]\end{aligned}$$

is not a ring homomorphism because (only) one of the necessary conditions is not satisfied.

Med venlig hilsen,

Diego