

Algebra 2 (2014)-Aalborg Universitet

Spiseseddel 4

4. **gang (A)**, fredag d. 14. februar, 8:15-12:00 i lokale G5-112

- 8:15-10:00 Forelæsning: Repetition + Construction of \mathbb{Q} . Field of fractions. Unique factorization (sider 123–127 + 227).
- 10:00-12:00 Opgaveregning [Lau]: 3.6 (side 138) :11, A, 18, 19, 23, 16, 13, 15, 12 + some exercises from 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 condition is not satisfied.

Med venlig hilsen,

Diego