

Homework 4

Deadline: Tuesday, November 18 at 14:00.

Please submit your solutions either on paper at the beginning of the practicals or as a pdf-file in <https://owl.mff.cuni.cz/> Everything that is not immediately obvious needs to be proved or quoted from lecture notes.

1. Find in the field $\mathbb{Z}_5$ all roots of the polynomials

(a) $x^5 - x$, (b) $x^{11} + x^5 + 1$, (c) $(x + 1)^{187}$.