

Homework 1

Deadline: Tuesday, October 14 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. Using Euclid's algorithm find a pair of polynomials $u, v \in \mathbb{Z}_3[x]$ (i.e. computing modulo 3) such that $u(x^3 + 1) + v(x^2 - x) = 1$.