

HOMEWORK #10 IN ALGEBRAIC STRUCTURES 2

1. Prove Lemma 12.1.
2. Prove Lemma 12.2.
3. Prove Lemma 12.5.
4. Prove Lemma 12.6.
5. Prove Lemma 12.7.
6. Find the galois group of the polynomials
 - (a) $t^4 + 2t^2 + t + 3$,
 - (b) $t^4 + 3t^3 - 3t - 2$,
 - (c) $t^5 - 4t + 2$