

Homework set # 6

Due on 2/27

0. The following problems from Artin “Algebra” edition 2: 16.2.1; 16.2.2 a; 16.3.1, 16.4.1
1. (1) Is $\mathbb{Q}(\sqrt[3]{2})$ a Galois extension of \mathbb{Q} ? Give a reason for your answer.
(2) Is $\mathbb{Q}(\sqrt{2}, \sqrt{3})$ a Galois extension of \mathbb{Q} ? Give a reason for your answer