Math 371 Homework#12

We will discuss these examples on Tuesday's class

- 1. Find the degree of the splitting field K of the following polynomials over \mathbb{Q} .
 - (a) $x^3 2$
 - (b) $x^4 1$
 - (c) $x^4 + 1$
- 2. Determine the Galois group of the field extensions in question 1 and use the groups to find the intermediate extensions L in $\mathbb{Q} \subset L \subset K$.