

MATH 251 PROBLEMS - FIELDS

- (1) Lang p. 253 ex 2,3,5,6,9,10,11
- (2) Determine the minimal polynomial of $\sqrt{2} + \sqrt{3}$
- (3) Determine the Galois group of $x^p - 2$ when p is a prime.
- (4) Let ζ_7 be a primitive 7-th root of 1. What is $\mathbb{Q}(\zeta_7) \cap \mathbb{R}$?