- **Read** project 7.4

- Let $K_1 \subset K_2 \subset \cdots \subset K_n$ be a chain of field extensions such that $K_i \subset K_{i+1}$ is algebraic. Prove that $K_1 \subset K_n$ is algebraic, and compute the degree of the extension, $[K_n : K_1]$.

- From chapter 9, please solve questions 38, 50, 51, 57, 63, 64, 65, 66, 67