

MATH 461

“Topics in Pure Mathematics”

1. Subrings
2. Ideals and Quotient Rings
3. Homeomorphisms and its Related Theorems
4. The Concepts of (Integral Domain) and its Related Theorems
5. Fields
6. Certain Special Ideals
 - Maximal Ideals
 - Prime Ideals
7. Polynomial Rings and its Related Theorems
8. Boolean Rings and Boolean Algebras

Books:

1. Theory of Groups, by Macdonald
2. Fundamental Concepts of Modern Mathematics, by Max D. Larsen
3. Introduction to Modern Abstract Algebra, by Burton
4. مقدمة حول نظرية الزمر، تأليف د. عادل غسان، د. باسل الهاشمي