

# Introduction to Group Theory

## Problem Sheet. [Chapter 2, Artin]

### Section 1. [The Definition of a Group].

1, 2, 5, 7, 10

### Section 2. [Subgroups]

1, 2, 3, 4, 5, 6, 9, 10, 13, 14, 16, 17, 19, 20

### Section 3. [Isomorphisms]

1, 5, 6, 7, 8, 12, 13, 14

### Section 4. [Homomorphisms]

2, 3, 4, 6, 7, 10, 13, 17, 18, 20

### Section 5. [Equivalence Relations and Partitions]

1, 2, 3, 4, 7, 8, 9,