- 1. Proof of the Eulerian criterium
- 2. A binary relation R between sets A and B is a set $R \subseteq A \times B$
- 3. A binary relation R on a set A is a set $R \subseteq A \times A$
- 4. Representation via set of pairs, binary matrix, bipartite graph
- 5. Composition of binary relations
- 6. Operations with binary relations
 - Set operations
 - Transposition T . R^T is known as converse, inverse, transpose relation.
- 7. Reflexivity, symmetry and transitivity
- 8. Equivalence relations

References

The books are listed on the wiki-page.

- [2]: Section 1.4 (I also recommend to study Section 1.5)
- [4]: Chapter 7
- [7]: Chapter 9