0.1. **Problem 1.** Find the *cardinality* of the following sets:

1. \( A = \{1, 2, 3, 4, 5, 6, 7\} \).
2. \( B = \{1, 3, 17\} \).
3. \( A \cap B \) (with \( A, B \) as above)
4. \( A \cup B \) (with \( A, B \) as above)
5. \( A \setminus B \).
6. The set of (reduced) fractions with denominator less than 6 which are strictly between 0 and 1.
7. The set of natural numbers divisible by 17.

0.2. **Problem 2.** Write down all subsets of the set \( \{1, 2, 3, 4, 5\} \).

0.3. **Problems 3-11.** Gensler, Exercises 2.1a.