

# Cardinality Worksheet

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September 5, 2025

## 1 Exercises

- I. Show that the set of even numbers is denumerable.
- II. Prove Theorem 1.2 (equivalent conditions for countable sets).
- III. Explain why the real number  $y$  in the proof of Theorem 2.1 is not a different decimal representation of one of the  $x_i$ .