

Math 300 Intro Math Reasoning
Worksheet 11: Systems of representatives

- (1) Let $E = \{\langle X, Y \rangle \in P(\mathbb{R})^2 \mid 2023, 2024 \notin X \Delta Y\}$.
- (1) Prove that E is an equivalence relation over $P(\mathbb{R})$.
- (2) Compute $|P(\mathbb{R})/E|$.