

I haven't thought of a title yet

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What is the first

this is my first time to write note all in English.

Contents

1 Preliminaries

Definition 1 *Let \mathcal{D} be a collection of sets. The union of \mathcal{C} , denoted by $\bigcup \mathcal{C}$, is the set defined by*

$$\bigcup \mathcal{C} = \{x \mid x \in S \text{ for some } S \in \mathcal{C}\}.$$