

## Definition

Let  $\mathcal{R} \subseteq A \times B$  be a relation. We define:

- The **domain** of  $\mathcal{R} = \{a \in A : (a, b) \in \mathcal{R}\}$ ;
- The **range** of  $\mathcal{R} = \{b \in B : (a, b) \in \mathcal{R}\}$ ;