Examples

• Let $A = B = \mathbb{R}$, and define

$$\mathcal{R} = \{(x, y) \in \mathbb{R}^2 : x < y\}$$

This is the "less than" relation.

2 Let $f: A \rightarrow B$, and define

$$\mathcal{R} = \{(x, f(x)) : x \in A\}.$$

Sometimes called the "graph" of f.

Let A be any set, and define

$$\mathcal{R} = \{(a, a) : a \in A\} \subseteq A \times A.$$

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The "equals" relation, or the "diagonal" relation.