

Examples

- 4 Let

$$A = 1, 2, 3, \quad B = \{\Delta, \star\}.$$

Then

$$\mathcal{R} = \{(1, \Delta), (1, \star), (2, \star), (3, \Delta)\}$$

is a relation.

- 5 Let A be any set, define

$$\mathcal{R} \subseteq \mathcal{P}(A) \times \mathcal{P}(A)$$

where

$$\mathcal{R} = \{(B, C) : B \subseteq C\}.$$