## Examples

Let

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

Then

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

is a relation.

• Let A be any set, define

 $\mathcal{R}\subseteq\mathcal{P}\left(A
ight) imes\mathcal{P}\left(A
ight)$ 

where

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