

Theorem

Let $f: A \rightarrow B$ be a function, and consider it as a relation from A to B . Then:

- 1 f^* is also a function iff f is bijective;
- 2 when f is bijective (invertible), then f^* is the graph of f^{-1} , i.e.

$$f^* = \{(y, f^{-1}(y)) : y \in B\}.$$