Definition

Let **A** and **B** be sets. A function $f : A \rightarrow B$ is a subset

$$f \subseteq \mathbf{A} \times \mathbf{B}$$

with the property

 $\forall x \in \mathbf{A} \quad \exists ! \ y \in \mathbf{B} : \ \langle x, y \rangle \in f.$ We say that **A** is the *source* and **B** is the *target* of *f*.