Recall definitions

Definition

- Let A, B be sets. A function from A to B is a rule f that assigns to every $x \in A$ some $y \in B$.
- We write $f: A \rightarrow B$.
- This element is denoted f(x).
- A is called the **domain** of the function f.
- B is called the **codomain** of the function f.
- The set $\{y \in B : \exists x \in A, f(x) = y\} \subseteq B$ is called the range or image of f.
- Functions are also called maps or transformations.