Representing Functions

You can represent a function $F : X \to Y$ with a set of ordered pairs:

• $\{(x, y)|y = f(x), x \in X, y \in Y\}$

Similarly, you can draw this as a directed bipartite graph (X, Y) with directed edges $x \to y$ for each $x \in X, y \in Y$ such that y = f(x).