

Some sample problems from 12.1

Problem 3: there are four different functions from $\{a, b\}$ to $\{0, 1\}$. List them.

Problem 5: give an example of a relation from $\{a, b, c, d, e\}$ to $\{d, e\}$ that is not a function.

Problem 9. Consider the set $\{(x^2, x) : x \in \mathbb{R}\}$. Is this a function from $\mathbb{R} \rightarrow \mathbb{R}$?