Homework 2

Seven Lewis

4/12/24

1. True or False (10pts)

1) The set $\{(1,1),(2,2),(3,3),(2,3)\}$ is a function.
False
2) Every regular language can be recongized by a deterministic finite automaton (DFA).
True
3) The fuction $f : \mathbb{R} \to \mathbb{R}$ defined by $f(x) = x^2 + 1$ is surjective.
False
4) Nondeterminist