HOMEWORK 5
Due: Monday February 22

READING ASSIGNMENT: 4.3, 4.4, 6.1
PROBLEMS FROM THE NOTES: 4.3.1, 4.3.5, 4.4.1, 4.4.2, 4.4.6, 6.1.3
ADDITIONAL PROBLEMS:

Problem 1: Prove part (1) of Theorem 4.9
Problem 2: Prove that if $f : A \to B$ is a one-to-one function then the relation $f^{-1}$ is a function on $\text{dom}(f^{-1})$. Suppose $f$ in onto but not one-to-one. What can you conclude about $f^{-1}$?