Assignment 13

Due in class Friday of Week 4

1. Exercise 9.2 (page 234)
2. Find the smallest possible example of sets A, B such that there are (at least) two functions f, g from A to B that are not equal (i.e. they are not the same relation).
3. Find the smallest possible examples of sets A, B, C and D and a function $f\colon A \to B$ where $C \subset D \subseteq B$ and $f^{-1}(C) = f^{-1}(D)$.