

Homework 7 for Math 300; Fall 2006.

Due Thurs Oct 26 in class:

Problems Section 3.3, # 1,2,8(a),12

Problems Section 4.1, # 1,2,6,11,13,14

Problem Prove that if f and g are functions then so is $f \circ g$.

Problem Prove that if f is a function, then f is one-to-one if and only if f^{-1} is a function.

Problem Prove that if R, S are equivalence relations on A , then so is $R \cap S$.

Definition: A relation R is a function iff $xRy \wedge xRz \Rightarrow y = z$. A function R is one-to-one iff $xRy \wedge zRy \Rightarrow x = z$.