

Math 220 - Discrete Mathematics - Fall 2016

Homework 10b

Due Monday, November 21

1. BOOK PROBLEMS

Section 11.0 # 1, 2, 4, 5, 8, 9, 10, 12, 15

Section 11.1 # 1, 2, 3, 5, 8, 10, 12

2. ADDITIONAL PROBLEMS

- (1) Let X be a set and $\wp(X)$ be the power set of X . “Subset of” is a relation on $\wp(X)$, i.e., $A\mathcal{R}B$ if $A \subset B$. Which of the following properties does \subset satisfy? Give the reason it satisfies the relation, or give a counterexample proving otherwise.
- (a) Reflexive
 - (b) Symmetric
 - (c) Antisymmetric
 - (d) Transitive