

Computer Science 260

Assignment 10

Due December 7, 2016

Please submit your assignment electronically via moodle. Submissions will be accepted in either plain text (.txt) or PDF. Clearly define all non-standard symbols used.

1. Epp p 366 # 32 (8 marks) Use the element method and proof by contradiction.

Given that $A \subseteq B$ and $B \cap C = \emptyset$ show that $A \cap C = \emptyset$.

2. Epp p 373 # 43 (8 marks) Construct an algebraic proof. Cite a property from Thm 6.2.2 on page 355 of the book at each step. Simplify

$$((A \cap (B \cup C)) \cap (A - B)) \cap (B \cup C^c)$$

3. Epp p 459 # 53 (8 marks)