

CS204: Homework #4

Due on October 20, 2016 at 11:59pm

Prof. Sungwon Kang — Section A

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Problem 1

(a) $A \cup B = \{2, 3, 4, 5, 6\}$

$(A \cup B)' = \{1, 7, 8, 9\}$

(b) $A \cap B = \{3, 4\}$

$(A \cap B) \times A = \{(3, 2), (3, 3), (3, 4), (4, 2), (4, 3), (4, 4)\}$

(c) $B \setminus A = \{5, 6\}$

$P(B \setminus A) = \{\emptyset, \{5\}, \{6\}, \{5, 6\}\}$

Problem 2

(a) $|F \cup M'| > |S \cup C|$

(b) All freshmen that are math major are CS majors.