CS394 R Homework 1

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$U = \{1, 2, 3 \dots 10\}, A = \{1, 4, 7, 10\}, B = \{1, 2, 3, 4, 5\}, C = \{2, 4, 6, 8\}.$

a

$\bar{A} \cap C = \{2, 6, 8\}, |\bar{A} \cap C| = 3$

b

$B - \bar{C} = \{2, 4\}, |B - \bar{C}| = 2$

c

$B \cup A = \{1, 2, 3, 4, 5, 7, 10\}, |B \cup A| = 7$

d

$\bar{B} \cap (A - C) = \{1\}, |\bar{B} \cap (A - C)| = 1$

e

$(A - B) \cap (B - C) = \emptyset, |(A - B) \cap (B - C)| = 0$