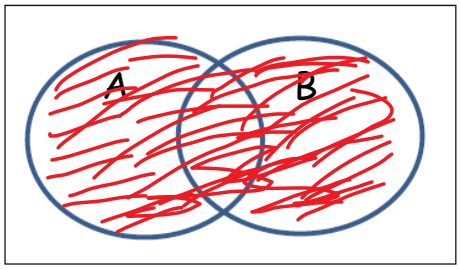
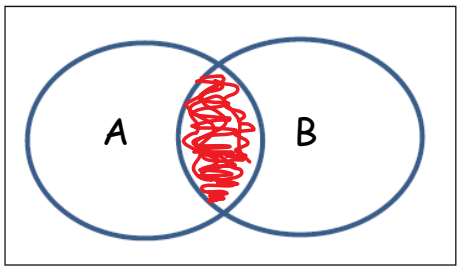
Math 3201 Unit 1 – Set Theory Name:_____

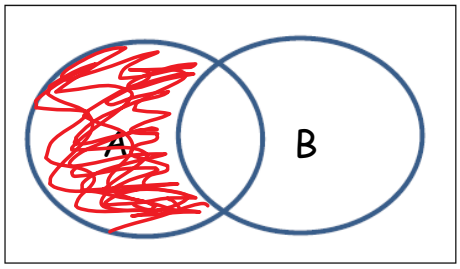
Venn Diagrams



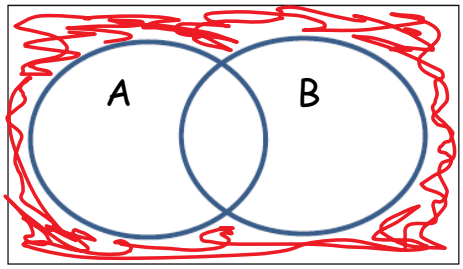
$(A \cup B)$



$(A \cap B)$



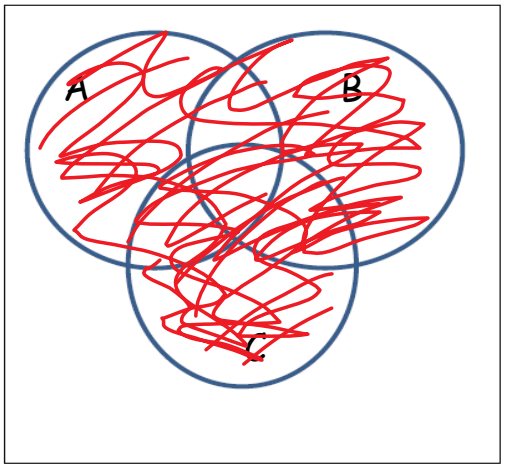
$(A \setminus B)$



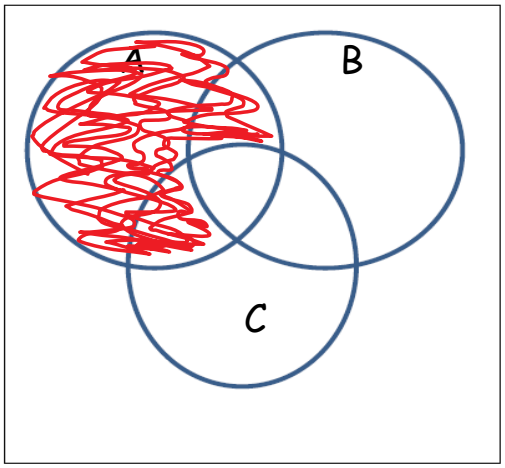
$(A \cup B)'$

$(A \cap B)'$

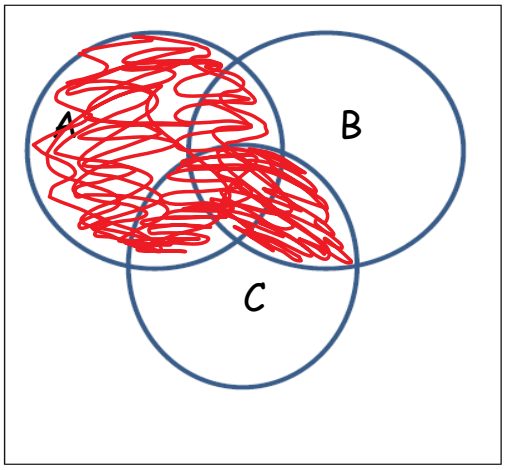
$(A \setminus B)$



$(A \cup B \cup C)$

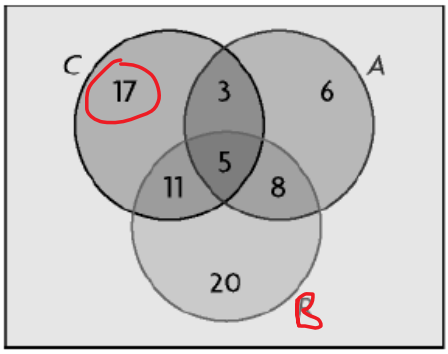


$(A \setminus (B \cap C))$



$(A \cup B \cap C)$

A summer camp offers canoeing, rock climbing, and archery. The following Venn diagram shows the types of activities the campers like. Use the diagram to determine how many campers like



A) $n(A \cap B \cap C) = 5$

B) $n(A \cup B)' = 17$

C) $n(A \cap B \cap C') = 8$

D) $n(A' \cap B') = 17$

E) $n(A \cap B \setminus C) = 8$