Show all work to receive full credit. Supply explanations when necessary. This quiz is worth 5 points. YOU MUST WORK INDIVIDUALLY.

1. (2 points) In a two-set Venn diagram, shade the region corresponding to $A \cap B'$.
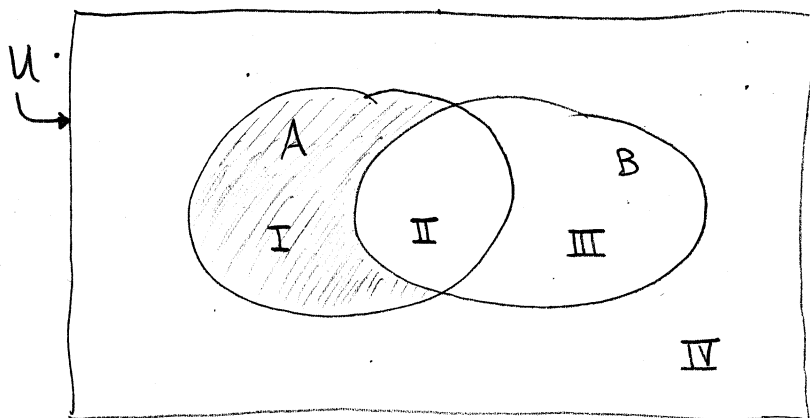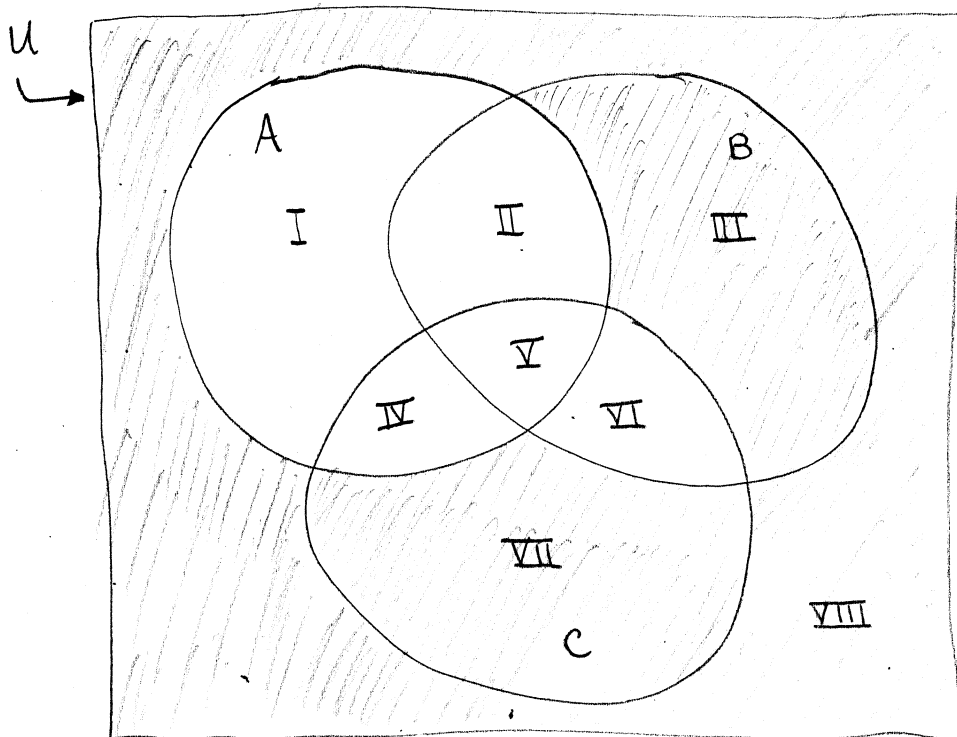

$A = \{I, II\}$

$B' = \{I, IV\}$

$A \cap B' = \{I\}$

2. (3 points) In a three-set Venn diagram, shade the region corresponding to $A' \cap (B' \cup C')$.

$A' = \{III, VI, VII, VIII\}$

$B' = \{I, IV, VII, VIII\}$

$C' = \{I, II, III, VIII\}$

$B' \cup C' = \{I, II, III, IV, VII, VIII\}$

$A' \cap (B' \cup C')$
$= \{III, VII, VIII\}$