

# Math 112 - Quiz 7

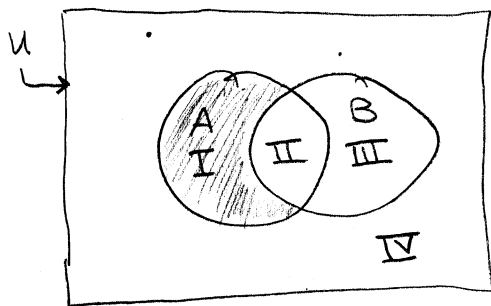
September 20, 2018

Name key

Score \_\_\_\_\_

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  $A \cap B'$ .

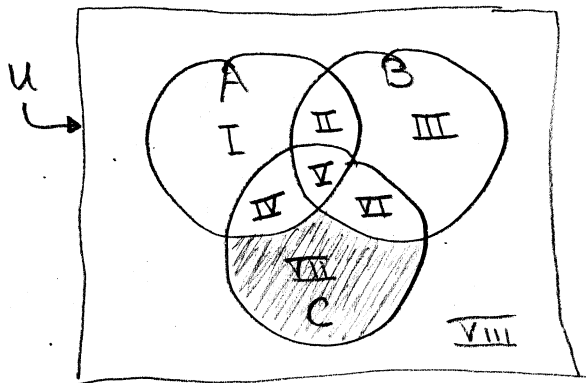


$$A = \{I, II\}$$

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

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

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



$$(A \cup B) = \{I, II, III, IV, V, VI\}$$

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

$$(A \cup C) = \{I, II, IV, V, VI, VII\}$$

$$(A \cup B)' \cap (A \cup C)$$

$$= \{VII\}$$