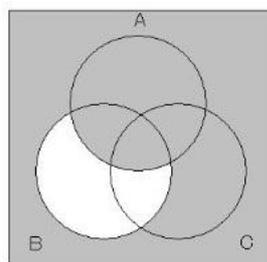


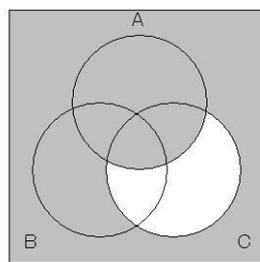
1.  $X = (A \cup B^c) \cap (A \cup C^c)$

分割すると下図のように考えられる



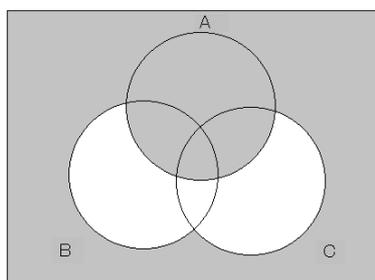
$(A \cup B^c)$

$\cap$



$(A \cup C^c)$

よって



$(A \cup B^c) \cap (A \cup C^c)$

2.  $X = (A \cap B) \cup (B \cap C) \cup (C \cap A)$