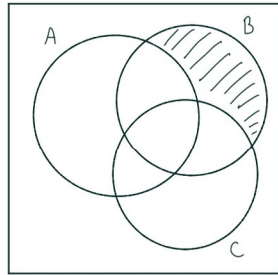


Quiz 10

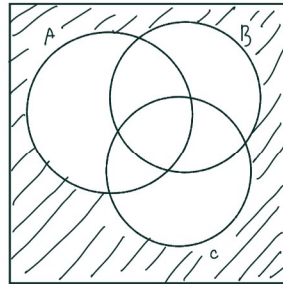
អង្កេតរូបភាពប្រូបប្រូប

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

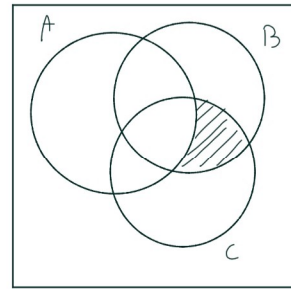
① Venn Diagram



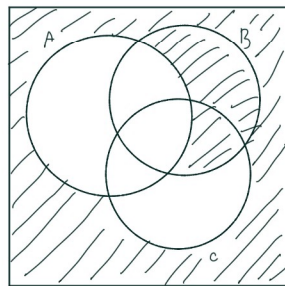
$$X = (A' \cap B \cap C')$$



$$Y = (A' \cap B' \cap C')$$



$$Z = (A' \cap B \cap C)$$



$$X \cup Y \cup Z$$

② ឆ្លើយ

2.1 Venn Diagram [ឆ្លើយ U = universe]

$$\begin{aligned} U - A - (C - B) &= U \cap A' \cap (C \cap B')' \\ &= A' \cap (C' \cup B) \end{aligned}$$

$$2.2 \quad \underbrace{(A' \cap B \cap C') \cup (A' \cap B' \cap C')}_G \cup (A' \cap B \cap C)$$

$$\begin{aligned} G &= (A' \cap B \cap C') \cup (A' \cap B' \cap C') = (A' \cap C') \cap (B \cup B') \\ &= A' \cap C' \cap U \\ &= A' \cap C' \end{aligned}$$

$$\begin{aligned} G \cup (A' \cap B \cap C) &= A' \cap (C' \cup (B \cap C)) \\ &= A' \cap ((C' \cup B) \cap (C' \cup C)) \\ &= A' \cap (C' \cup B) \cap U \\ &= A' \cap (C' \cup B) \end{aligned}$$