



แบบฝึกหัดเรื่อง Set

ชื่อ-นามสกุล นางสาว อติกานต์ หงษ์ทอง

เลขประจำตัว 9197

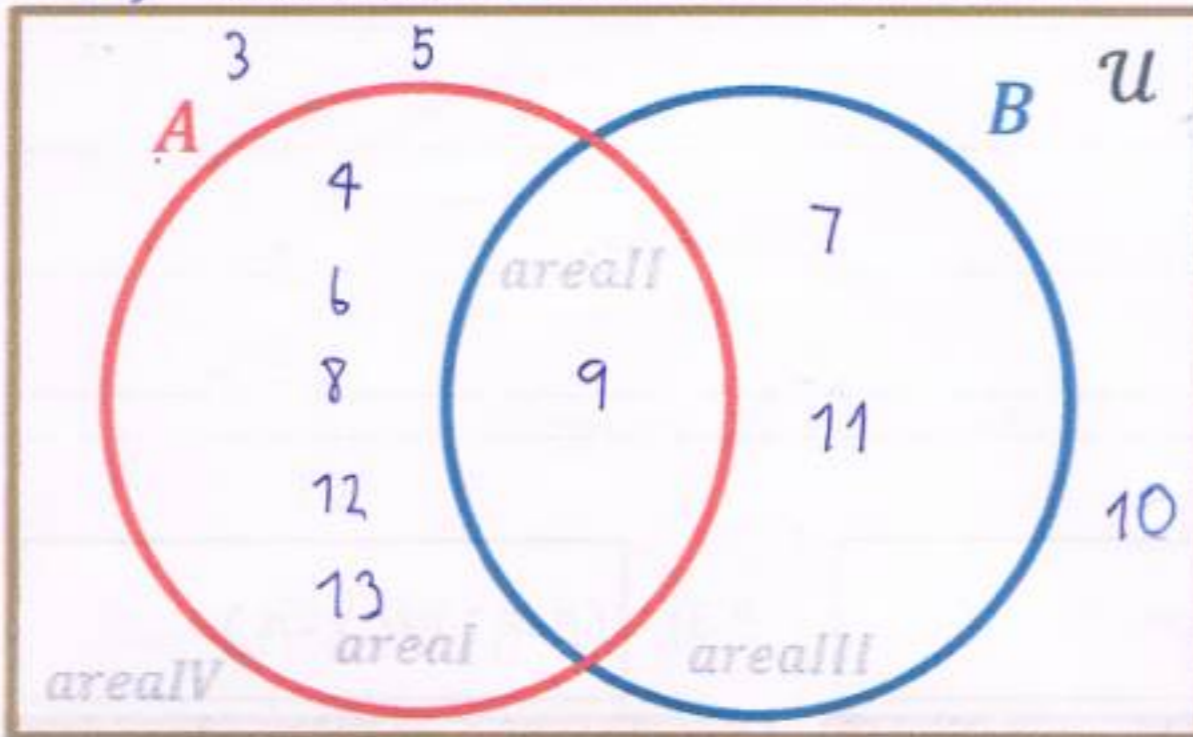
1. กำหนดให้

$$U = \{3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13\}$$

$$A = \{4, 6, 8, 9, 12, 13\}$$

$$B = \{7, 9, 11\}$$

1.1) จงเขียนสมาชิกของแต่ละเซต ลงในแผนภาพเซต



1.2) จงหา

$$n(A \cap B) = 1 \{9\}$$

$$n(A - B) = 5 \{4, 6, 8, 12, 13\}$$

$$n(B - A) = 2 \{7, 11\}$$

$$n(A \cup B) = 8 \{9, 4, 6, 8, 12, 13, 7, 11\}$$

$$n(U - (A \cup B)) = 3 \{3, 5, 10\}$$

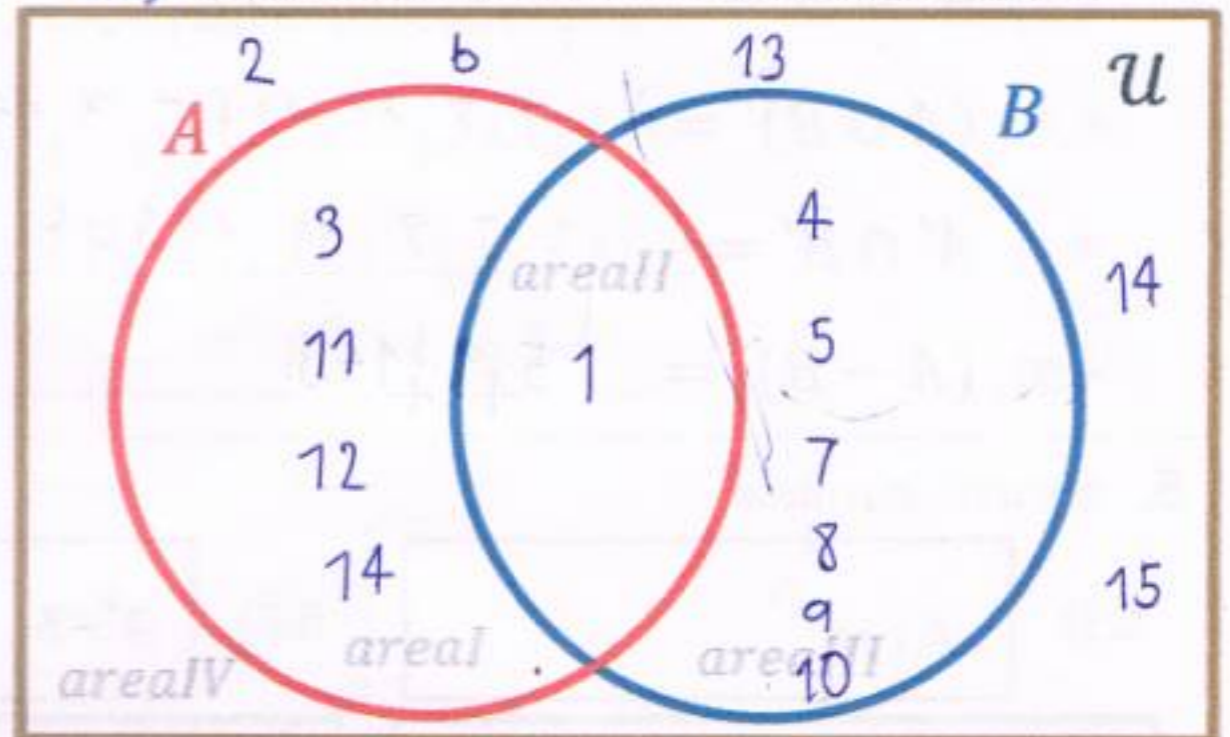
2. กำหนดให้

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$$

$$A = \{1, 3, 11, 12, 14\}$$

$$B = \{1, 4, 5, 7, 8, 9, 10\}$$

2.1) จงเขียนสมาชิกของแต่ละเซต ลงในแผนภาพเซต



2.2) จงหา

$$n(A \cap B) = 1 \{1\}$$

$$n(A - B) = 4 \{3, 11, 12, 14\}$$

$$n(B - A) = 6 \{4, 5, 7, 8, 9, 10\}$$

$$n(A \cup B) = 11 \{1, 3, 11, 12, 14, 4, 5, 7, 8, 9, 10\}$$

$$n(U - (A \cup B)) = 5 \{2, 6, 13, 14, 15\}$$

3. กำหนดให้

$$U = \{2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$$

$$A = \{2, 8, 13, 14, 15\}$$

$$B = \{2, 8, 10, 11, 12, 15\}$$

$$C = \{7, 8, 12\}$$

3.1) จงเขียนสมาชิกของแต่ละเซต ลงในแผนภาพเซต

3.2) จงหา

$$n(A \cap B \cap C) = 1 \{8\}$$

$$n(A \cup B \cup C) = 9 \{2, 8, 13, 14, 15, 10, 11, 12, 7\}$$

$$n(A \cap B) = 3 \{2, 8, 15\}$$

$$n(B \cap C) = 2 \{8, 12\}$$

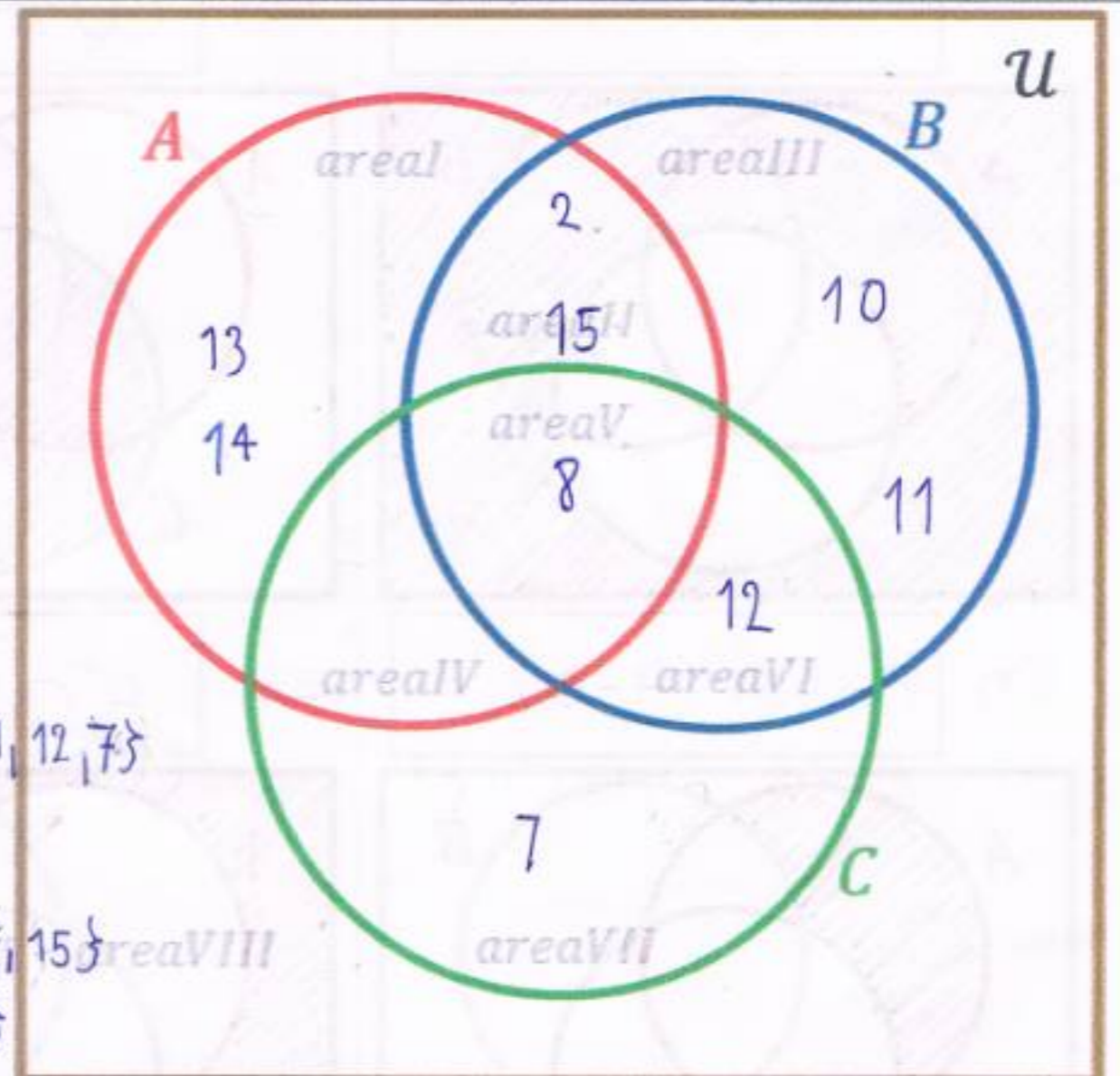
$$n(A \cup C) = 7 \{2, 8, 7, 12, 13, 14, 15\}$$

$$n(B \cup C) = 7 \{2, 7, 8, 10, 11, 12, 15\}$$

$$n(A - B) = 4 \{2, 8, 13, 14, 15\}$$

$$n(B - A) = 6 \{2, 8, 10, 11, 12, 15\}$$

$$n((A \cup B) \cap C) = 1 \{8\}$$



$$n((A \cap B) \cup C) = 5 \{2, 15, 8, 7, 12\}$$

$$n((A \cap B \cap C)') = 8 \{13, 14, 2, 15, 12, 7, 10, 11\}$$

4. กำหนดให้ $U = \{ 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 \}$,

$A = \{ 5, 9, 14 \}$, $B = \{ 4, 9, 10, 13 \}$ จงหาเซตในแต่ละข้อต่อไปนี้

4.1) $A \cup B = \{ 5, 9, 14, 4, 10, 13 \}$

4.2) $A \cap B = \{ 9 \}$

4.3) $A \cup B' = \{ 5, 9, 6, 7, 8, 11, 12 \}$

4.4) $A' \cap B = \{ 10, 13 \}$

4.5) $A - B = \{ 5, 9, 14 \}$

4.6) $B' - A = \{ 6, 7, 8, 11, 12, 5, 9 \}$

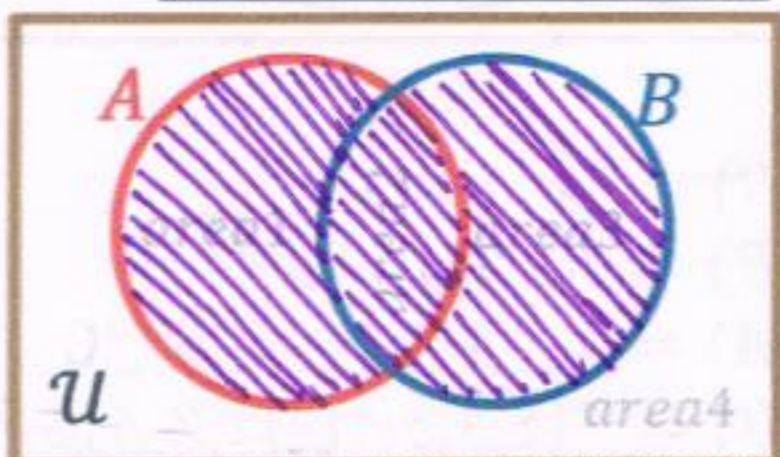
4.7) $(A \cup B)' = \{ 6, 7, 8, 11, 12, 5, 9, 14 \}$

4.8) $A' \cap B' = \{ 6, 7, 8, 11, 12, 9 \}$

4.9) $(A - B)' = \{ 14 \}$

5. จงแรเงาแผนภาพเซต

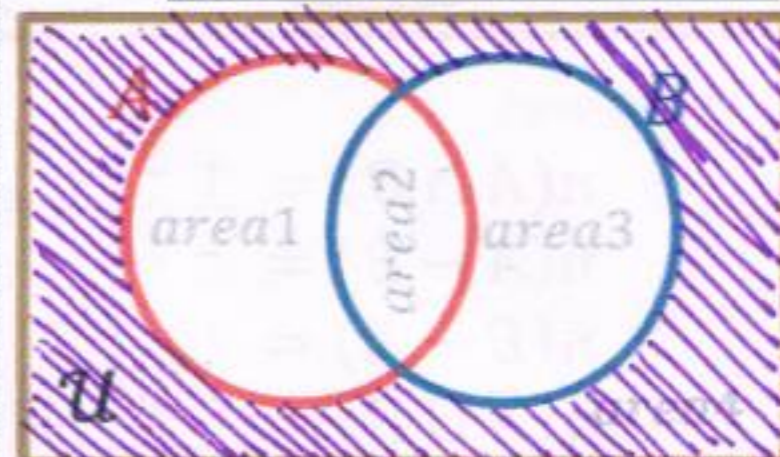
5.1) $A \cup B$



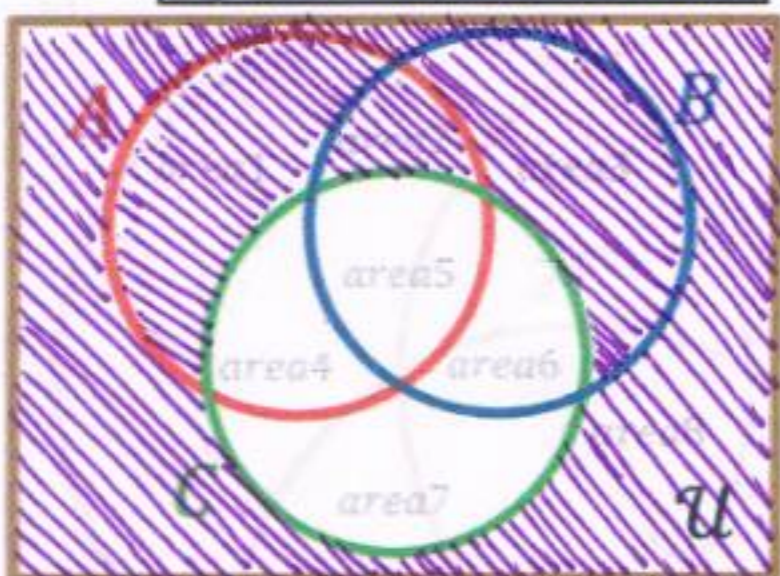
5.2) $A' - B$



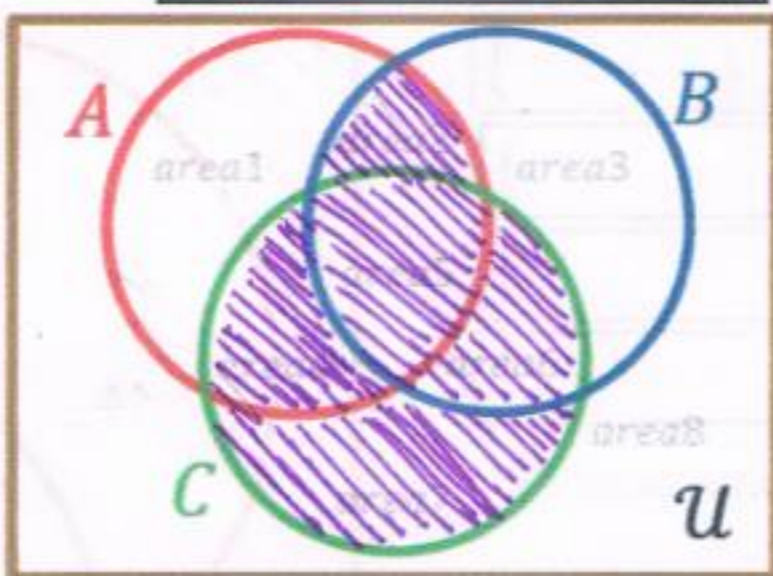
5.3) $(A - B) \cup (B - A)$



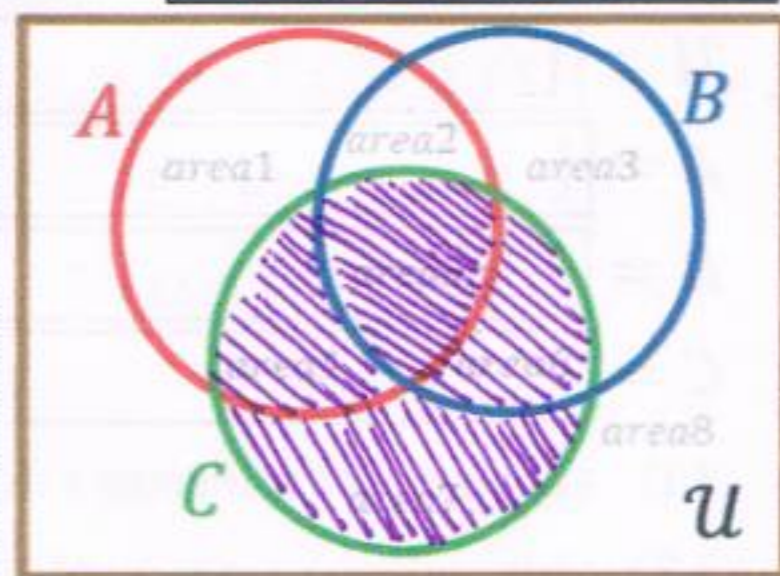
5.4) C'



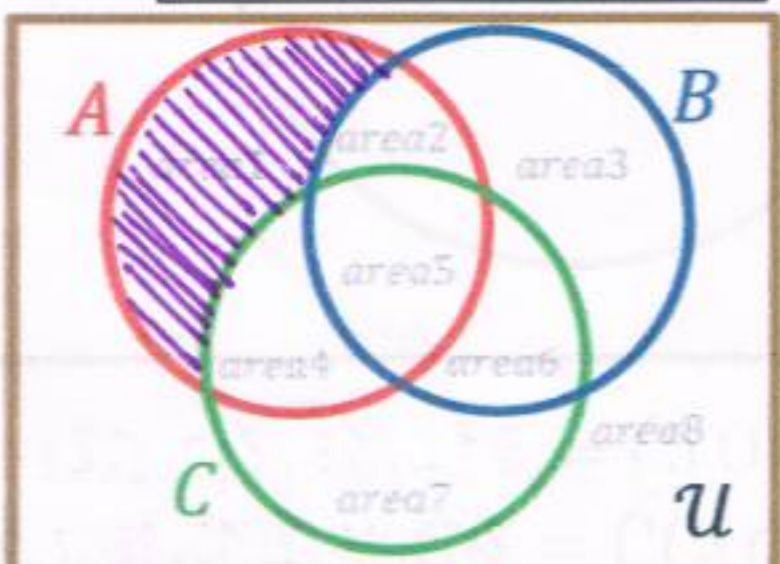
5.5) $C \cup (A \cap B)$



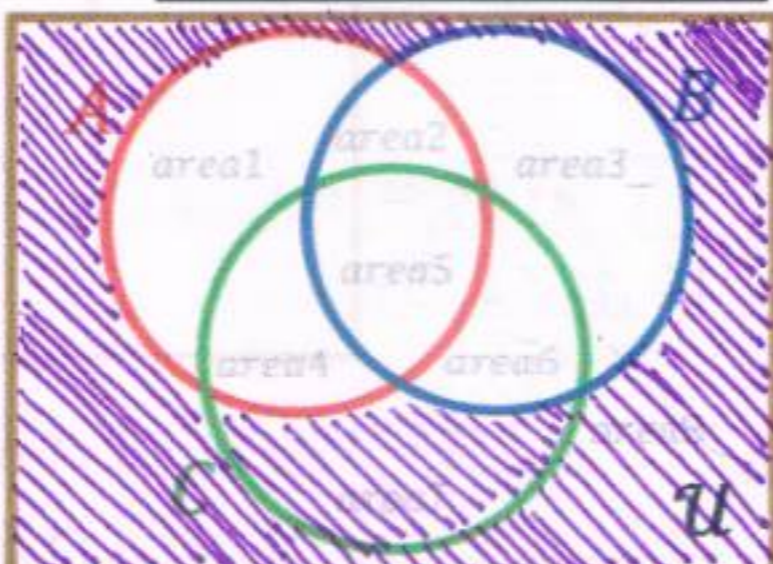
5.6) $(A \cup C) \cap (B \cup C)$



5.7) $(A - B) \cap (A - C)$



5.8) $A' \cap B'$



5.9) $A' \cap (B - C)'$

