

1.5 11)  $\checkmark$  12)  $\times$  13)  $\checkmark$  14)  $\checkmark$   
 15)  $\checkmark$  16)  $\checkmark$  17)  $\checkmark$  18)  $\times$

1.9 13)  $\{2, 3, 4, 5, 6\}$

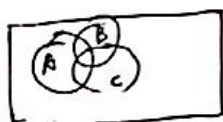
14)  $\{\emptyset, \{1\}\}$

1.14 11)  $((A \cup B) \cap B) - (A \cup B)$

$$A \cup B = E$$

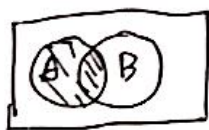
$\therefore$  为  $\emptyset$

12)  $((A \cup B \cup C) - (B \cup C)) \cup A$



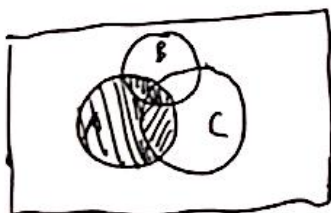
为 A

1.18 11)  $(A \cap B) \cup (A - B)$



A

13)  $((A - B) \cap C) \cup ((A - B) \cap C) \cup ((A \cap B) - C) \cup (A \cap B \cap C)$



A

1.21.  $(A - B) \cup (B - A)$

$$= (A \cap \sim B) \cup (B \cap \sim A)$$

$$= (A \cup B) \cap (\sim B \cup B) \cap (A \cup \sim A) \cap (\sim B \cup \sim A)$$

$$= (A \cup B) \cap E \cap \sim (A \cap B) = (A \cup B) - (A \cap B)$$

$$\begin{aligned}
 1.22 \quad (11). \quad (A-B) - C & \\
 &= A \cap \sim B \cap \sim C \\
 &= A \cap \sim (B \cup C) \\
 &= A - (B \cup C).
 \end{aligned}$$

$$\begin{aligned}
 1.37. \quad (3). \quad (A-B) \cap (A-C) &= \emptyset. \\
 \Leftrightarrow A - (B \cap C) &= \emptyset \\
 \Leftrightarrow A &\subseteq B \cap C.
 \end{aligned}$$

$$\begin{aligned}
 (4). \quad (A-B) \cap (A-C) &= A \\
 \Leftrightarrow A - (B \cup C) &= A. \\
 \Leftrightarrow A \cap (B \cup C) &= \emptyset.
 \end{aligned}$$