P268. 1. 2.

1.

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已知 M \subseteq N, 即 \forall x, x \in M \to x \in N \equiv T \Leftrightarrow \neg x \in M \lor x \in N \equiv T
\therefore M = \{x | x \in M \}
= \{x | x \in M \land (\neg x \in M \lor x \in N) \}
= \{x | x \in M \land x \in M \lor x \in M \land x \in N \}
= \{x | x \in M \land x \in N \}
= M \cap N
\therefore N = \{x | x \in N \}
= \{x | x \in N \lor \neg (\neg x \in M \lor x \in N) \}
= \{x | x \in N \lor (x \in M \land \neg x \in N) \}
= \{x | (x \in N \lor x \in M) \land (x \in N \lor \neg x \in N) \}
= \{x | x \in M \lor x \in N \}
= \{x | x \in M \lor x \in N \}
= \{x | x \in M \lor x \in N \}
= \{x | x \in M \lor x \in N \}
= \{x | x \in M \lor x \in N \}
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2.

$$\begin{split} \therefore M \cap (N \cup L) &= \{x | x \in M \wedge (x \in N \vee x \in L)\} \\ &= \{x | x \in M \wedge x \in N \vee x \in M \wedge x \in L\} \\ &= (M \cap N) \cup (M \cap L) \\ \\ \therefore M \cup (N \cap L) &= \{x | x \in M \vee (x \in N \wedge x \in L)\} \\ &= \{x | (x \in M \vee x \in N) \wedge (x \in M \vee x \in L)\} \\ &= (M \cup N) \cap (M \cup L) \end{split}$$