(性练 6-3)

Pf; (1) √

- (2) 已知 $A \subset B$,以 $B^{c} \subset A^{c}$ 由性质5.3 知 $\overline{B^{c}} \subset \overline{A^{c}}$ 由文理 6.1 知: $(B^{o})^{c} \subset (A^{o})^{c} \Rightarrow A^{o} \subset B^{o}$
- (3) $(A \wedge B)^{\circ} = (\overline{(A \wedge B)^{c}})^{c} = (\overline{A^{c} \sqcup B^{c}})^{c} = (\overline{A^{c}} \sqcup \overline{B^{c}})^{c} = (\overline{A^{c}})^{c} \wedge (\overline{B^{c}})^{c} = A^{\circ} \wedge B^{\circ}$ De Mugan $\overline{\Sigma} = A^{\circ} \wedge B^{\circ}$

 $A \subset A \sqcup B \Rightarrow A^{\circ} \subset (A \sqcup B)^{\circ}$ $B \subset A \sqcup B \Rightarrow B^{\circ} \subset (A \sqcup B)^{\circ}$ $A \subset A \sqcup B \Rightarrow A^{\circ} \sqcup B^{\circ} \subset (A \sqcup B)^{\circ}$

 $(A^{\circ})^{\circ} = (\overline{(A^{\circ})^{\circ}})^{\circ} = (\overline{(\overline{(A^{\circ})^{\circ}})^{\circ}})^{\circ} = (\overline{A^{\circ}})^{\circ} = (\overline{A^{\circ}})^{\circ} = A^{\circ}$ $\overline{(\mathbb{Z}^{2}6)} \qquad \overline{(\mathbb{Z}^{2}6)} \qquad \overline{(\mathbb{Z}^{2}6$