## 软件理论基础—命题逻辑 1-2 作业

- 1. 设 $A \downarrow B$ 表示¬( $A \lor B$ ),证明连接符{↓}是命题逻辑连接符的充足集。
- 2. 试证:

$$(1) \vdash (B \to C) \to ((A \to B) \to (B \to C))$$

$$(2) \vdash (A \to (A \to B)) \to (A \to B)$$

3. 试证:

$$(1) \ (A \rightarrow (B \rightarrow C)) \approx (B \rightarrow (A \rightarrow C))$$

(2) 
$$(A \rightarrow (A \rightarrow B)) \approx (A \rightarrow B)$$