

Derivative Practice

1. Method. on common case

1) show $P \Rightarrow \sim P$ ASSID \Rightarrow ID/DD

2) show $P \rightarrow Q \Rightarrow P$ ASSID \Rightarrow show $Q \Rightarrow$ CD/ID

3) show $P \vee Q$.

① Basic Rule: $\Rightarrow \sim(P \vee Q)$ ASSID \Rightarrow show P or Q
 $\Rightarrow P \vee Q$ ADD \Rightarrow DD.

② All Rules: $\Rightarrow \sim(P \vee Q)$ ASSID $\Rightarrow \sim P \wedge \sim Q$ DM
 \Rightarrow DD/ID.

4) show $P \leftrightarrow Q \Rightarrow$ show $P \rightarrow Q \Rightarrow$ show $Q \rightarrow P$
 $\Rightarrow P \leftrightarrow Q$ CB \Rightarrow DD

5) show $P \wedge Q \Rightarrow$ show $P \Rightarrow$ show $Q \Rightarrow P \wedge Q$ ADJ.
 \Rightarrow DD.

2. 技巧总结.

1) 只用在 Basic Rule 时, 若有 $\sim()$ 形式, 可尝试 show 括号内句子, 再使用 ID.

