

logic pset3

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You may use any of the rules of inference, including reductio ad absurdum, to prove the following sequents.

1. $\neg(P \rightarrow Q) \vdash Q \rightarrow R$
2. $P \rightarrow Q \vdash \neg P \vee Q$
3. $P \rightarrow (R \vee Q) \vdash (P \rightarrow R) \vee (P \rightarrow Q)$
4. $P \rightarrow (Q \vee R) \vdash (P \rightarrow Q) \vee R$