109 Spring 2011 - Truth Tables

Exercise (I.2). By using truth tables prove that, for all statements $P$ and $Q$, the three statements

1. ‘$P \implies Q$’
2. ‘$(P \lor Q) \iff Q$’
3. ‘$(P \land Q) \iff P$’

are equivalent.
Exercise (I.3). Prove that the three basic connectives ‘or’, ‘and’, and ‘not’ can all be written in terms of a single connective ‘notand’ where ‘P notand Q’ is interpreted as ‘not (P and Q)’.