HW1 Due June 2

1) Write the truth table for the following expression:

\[(p \lor q) \lor (\neg p \land q) \rightarrow q\]

2) Write the truth table for the following expression:

\[(p \rightarrow q) \iff (q \rightarrow r) \text{ (see the text for } \iff\text{)}\]

3) Is the following two expressions Logically equivalent?

\[P \rightarrow (q \rightarrow r) \iff (P \rightarrow q) \rightarrow r\]

4) Is the following two expressions Logically equivalent?

\[P \rightarrow q \iff \neg p \rightarrow \neg q\]