

Sections 1.4 – 1.5 Practice Problems

CSI30

1. Proof by truth tables that $\neg(p \vee q)$ and $\neg p \wedge \neg q$ are logically equivalent.
2. Show that $(\neg p \wedge (p \vee q)) \rightarrow q$ is a tautology without using truth tables.
3. Show that $(p \rightarrow r) \wedge (q \rightarrow r)$ and $(p \vee q) \rightarrow r$ are logically equivalent.