1. Find the truth table of:

   a. $p \wedge q \wedge r$

   b. $\neg p \vee (q \vee r)$

   c. $p \wedge \neg(r \vee \neg q)$

   d. $(p \vee q) \wedge \neg q \wedge r$

2. Find the truth table of:

   a. $p \wedge q \Rightarrow r$

   b. $\neg p \vee q \Rightarrow r$

   c. $p \Rightarrow \neg q \vee r$

   d. $p \Leftrightarrow r \wedge q$

3. Use truth table to check whether the following logicals are equivalence

   a. $p \Rightarrow q \vee r$; $\neg q \Rightarrow \neg p \vee r$

   b. $p \vee q$; $p \vee r \vee q$

   c. $p \wedge q \wedge \neg r$; $\neg(\neg p \vee \neg q) \wedge r$

   d. $\neg p \Rightarrow q \vee r$; $\neg(p \Rightarrow p) \wedge r$