Exercise 2 (deadline: October 16th, 4pm)

Exercise 4.2 (b)
Build a truth table for the following formula

$$p \leftrightarrow (\neg r \rightarrow \neg p).$$

Exercise 4.5
Check, using splitting, whether the formula
$(p \leftrightarrow q) \wedge ((p \wedge \neg q) \vee (q \wedge \neg p))$ is satisfiable. Split on the atom p first.

Exercise 5.4 (a)
Apply the standard CNF transformation algorithm to the following formula:

$$\neg((p \rightarrow q) \leftrightarrow (\neg q \rightarrow \neg p))$$