In-class exercise (not to be turned in):

Show that the following conditional statements are tautologies:

- \( \sim(p \Rightarrow q) \Rightarrow p \)
- \( (p \iff q) \equiv ((q \Rightarrow p) \land (p \Rightarrow q)) \)

Homework (to be turned in Wednesday, June 8):

Show that the following conditional statement is a tautology:

\( \sim(p \iff q) \equiv ((p \land \sim q) \lor (q \land \sim p)) \)