

## HW2: Basic Logic

**Q1:** How to construct an argument from predicates?

**Q2:** How to tell if an argument is sound?

**Q3:** Show that  $p \vee (p \wedge q) \equiv p$  using a truth table.

**Q4:** Show that the following argument form is valid:  $p \vee q, p \rightarrow r$ , and  $q \rightarrow r$ , then  $r$ .