

## **Summary: Truth Tables and Validity**

### **Truth Table Test of Validity:**

**0. Build a truth table for each premise and for the conclusion.**

(Build them all out of the same initial sentence letters, as one long truth table.)

1. Pick out those valuations making **all the premises true**.
2. Check the conclusion in those selected valuations:
  - a. If the **conclusion is true in every one** of those valuations, the argument is **valid**.
  - b. If the **conclusion is false in even one** of those selected valuations, then the argument is **invalid**.