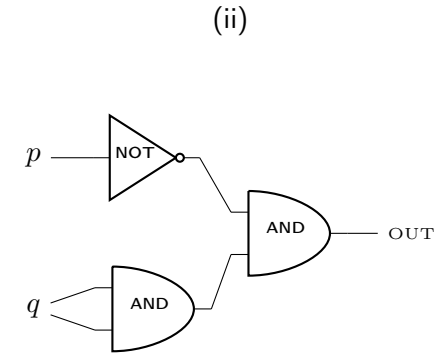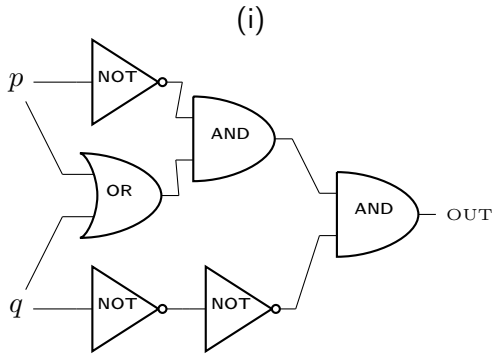# CSE 311: Foundations of Computing I

QuickCheck: Gates and Equivalence (due Thursday, October 2)

Name:

0. If you turn the paper horizontally, the circuits look like robots (:

(a) Convert each of the following circuits to logical expressions.

(i)

(ii)

(b) Prove that (i) and (ii) are equivalent using a truth table.

(c) Prove that (i) and (ii) are equivalent using propositional equivalences. See your handout for a full list of them.

1. One Question!

Please come up with one question related to the course that hasn't been answered yet. It could be about policy, content, instructors, TAs, etc.