

The Dragon Academy
Introduction to Computer Technology
Term 4
Assignmentt 1

May 4, 2020

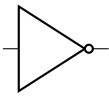
1. (kTlCA) Let's denote by **p** the sentence *My CS teacher can fly*. Obviously, sentence **p** is false. Let's denote by **q** the sentence *This is a test question*. Of course, sentence **q** is true. We can modify and combine these sentences using negation, conjunction and disjunction. State the truth value of each of the following sentences

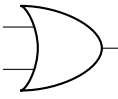
a) NOT **p**

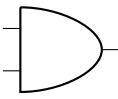
b) **p** AND **q**

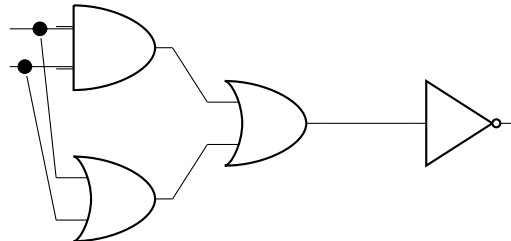
c) **p** OR **q**

2. (KtiCa) Write the name and the truth table of each of the following gates

(a) Name: 

(b) Name: 

(c) Name: 



3. (ktiCA) Write the truth table of the following circuit

4. (kTlCA) Draw the logic circuit of the following expression **NOT(x AND (not y))**