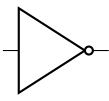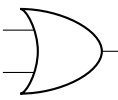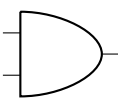# The Dragon Academy
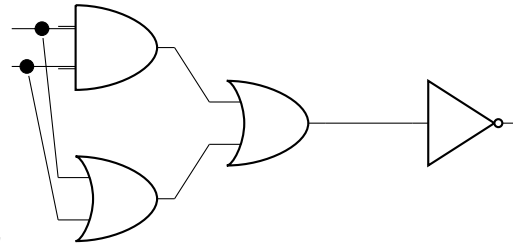## Introduction to Computer Technology
Term 3
Test

April 17, 2019

1. Choose the right answer: The three most important hardware components of a computer are

   a) the CPU, Memory and Motherboard
   b) the CPU, the keyboard and a screen
   c) the CPU, an awesome graphics card and a joystick
   d) the CPU, the Memory and a Hard Disk

2. Why does a computer need a motherboard? What does it do?

3. What does the acronym **IC** stand for?

4. (kTIcA) 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**

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

   (a) Name:

   (b) Name:

   (c) Name:

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

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