**COMP2611 Spring 2016 Homework #1 Answer Sheet**

**(Due Monday Mar 7 5PM)**

**Name: Stu ID:**

**Note:**

* **This is an individual assignment; all the work must be your own.**
* **Submit a pdf file via CASS. Change this file name to <*your\_stu\_id>.pdf* (without the brackets)**
* **Use Logisim to draw all digital circuits, and paste the image into your homework.**

**Question 1: Data representation, conversion between bases**



146 (10) = (2) = (16)

F0D1 (16) = (2) = (10)



146 (10) = (2) = (16)

F0D1 (16) = (2) = (10)



146 (10) = (2) = (16)

F0D1 (16) = (2) = (10)

2. 3.75
3. -313.3125
5. 0 00000000 11100000000000000000000
6. 1 10000001 00011000000000000000000

**Question 2: Boolean algebra and Combinational logic**



**Question 3: Sequential logic**



