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CDA3201C

Logic Design Course

Lab 0 – First circuit wiring design

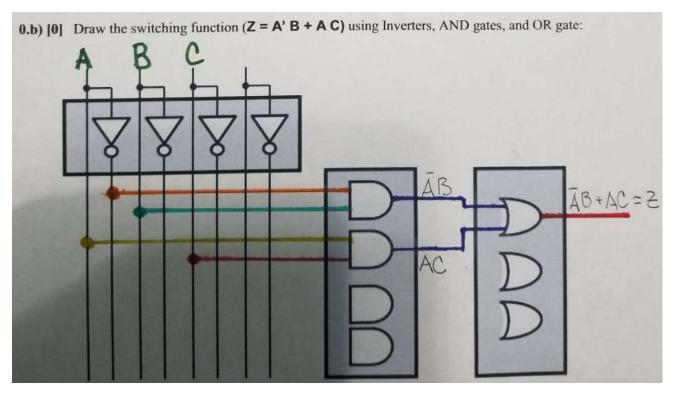
### Truth Table:

0) [5] This lab experiment is used for the lab orientation where TAs will walk you through practical steps to build the experiment circuit and test it. You will use the following simple function:

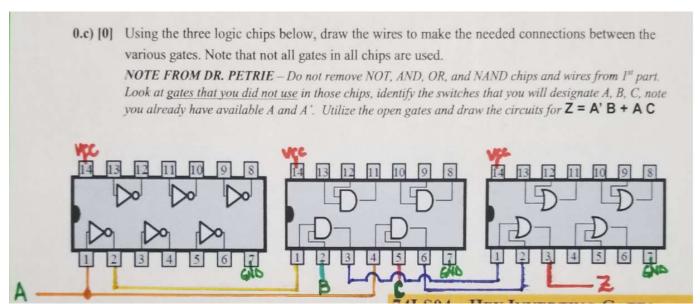
0.a) [0] Fill the truth table for the above function

ABC	A' B	AC	Z
000	0	0	0
001	0	0	0
010	1	0	
011	1	0	1
100	0	0	0
101	0		
110	0	0	0
111	0		1

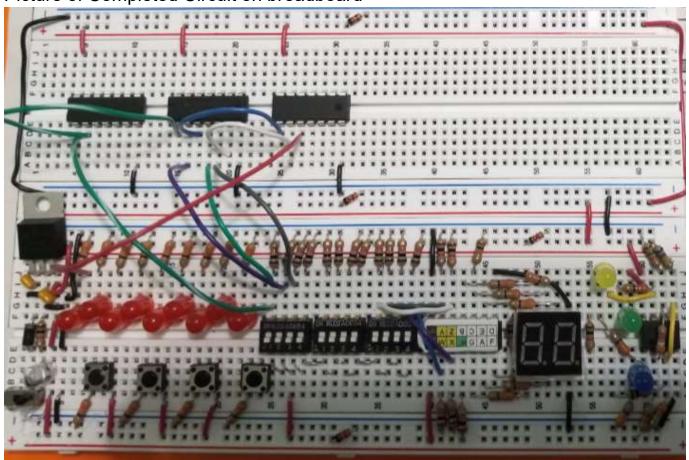
## Logic Circuit Drawing (Z = A'B + AC)



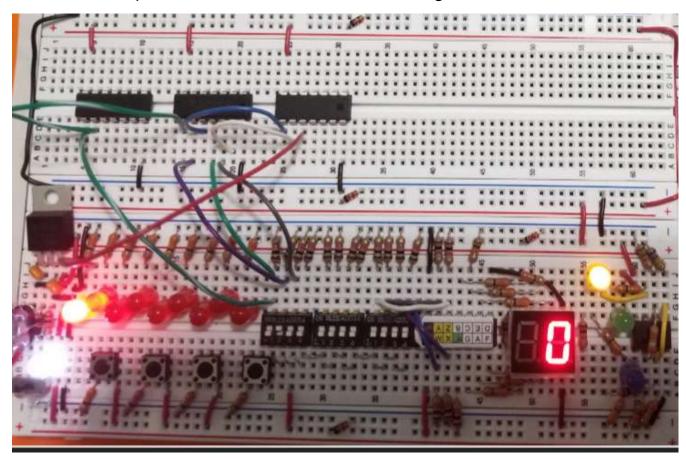
## Drawing Using Logic Chips (Z = A'B + AC)



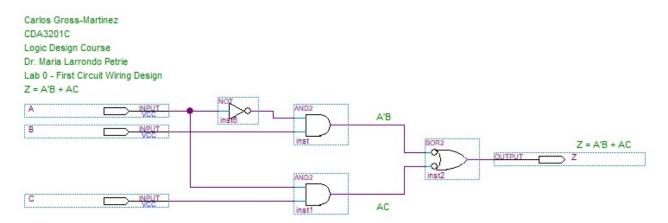
# Picture of Completed Circuit on breadboard



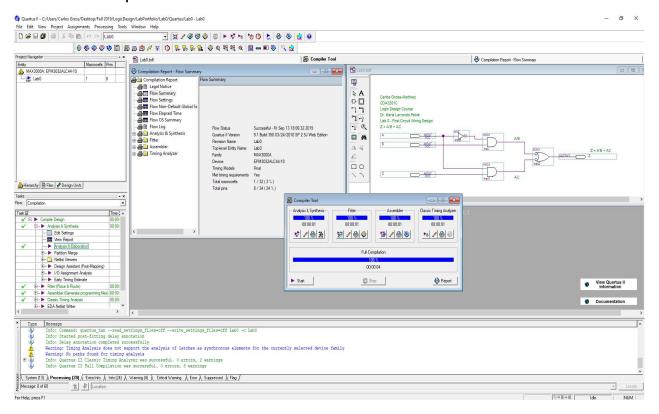
# Picture of Completed Circuit on breadboard Working



### **Quartus Schematic**



### **Quartus Compilation Result**



#### **Quartus Waveform**

