Name: _____   Lab Section: _____

ECE 2140
Experiment 10 Prelab
Programmable Logic Devices
Half Adder

1. Read through Experiment 10.

2. Look up the data sheets for the parts used in the experiment.

    a. Find the following specifications for each IC

Recommended (Nominal) Operating Voltages	
	GAL16V8
V_{CC}	
V_{IL}	
V_{IH}	
V_{OL}	
V_{OH}	

3. Find the Boolean expressions for the Sum and Carry outputs:

X	Y	Sum	Carry
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

4. Draw the schematic for these 2 Boolean expressions: